FIGURE 1

FIGURE 2

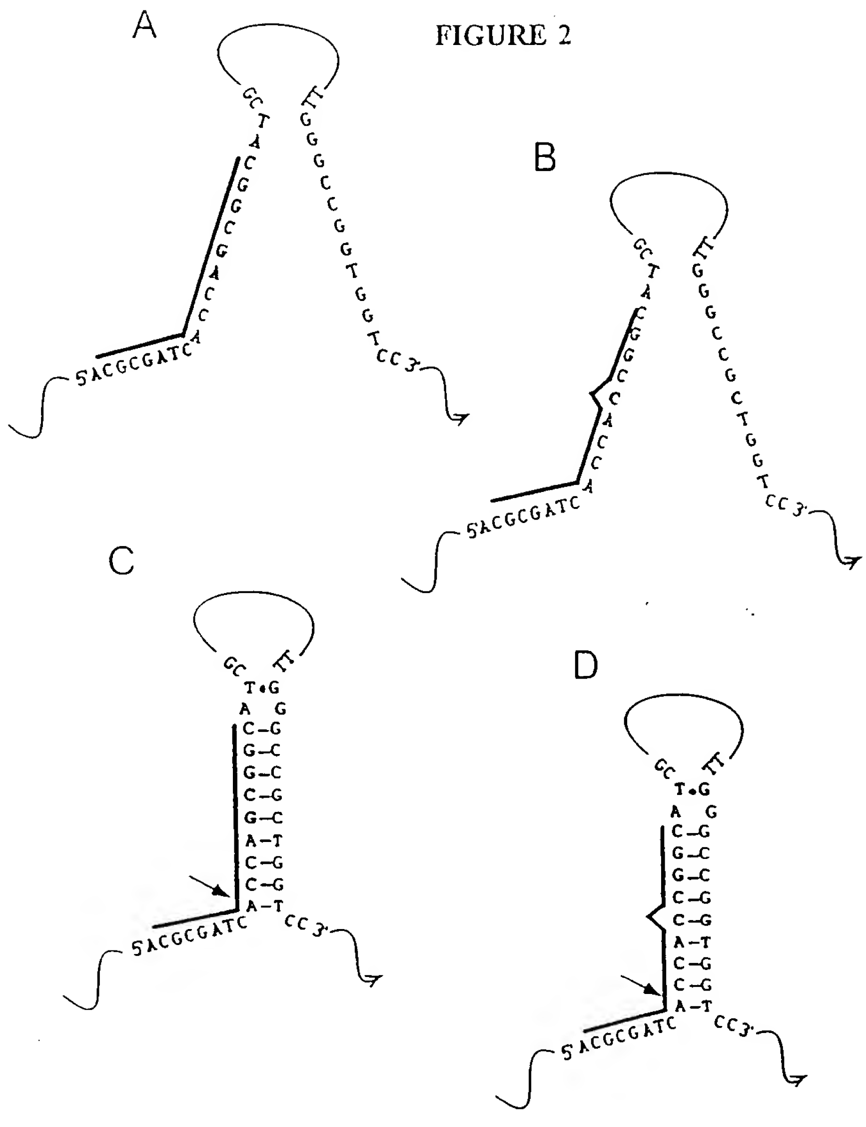

FIGURE 3

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FIGURE 4

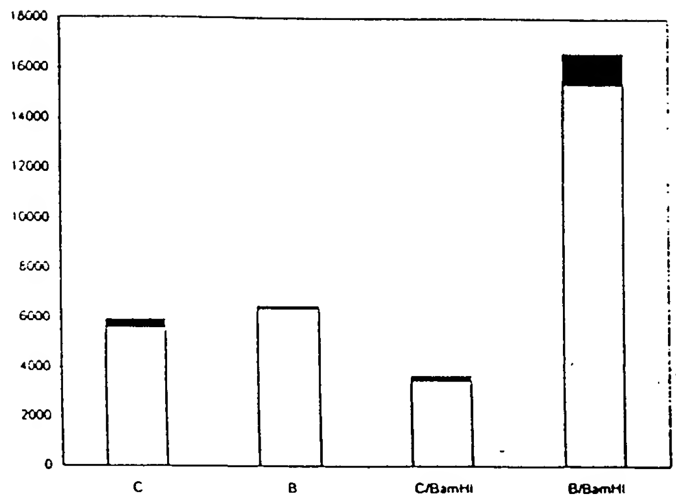

FIGURE 5

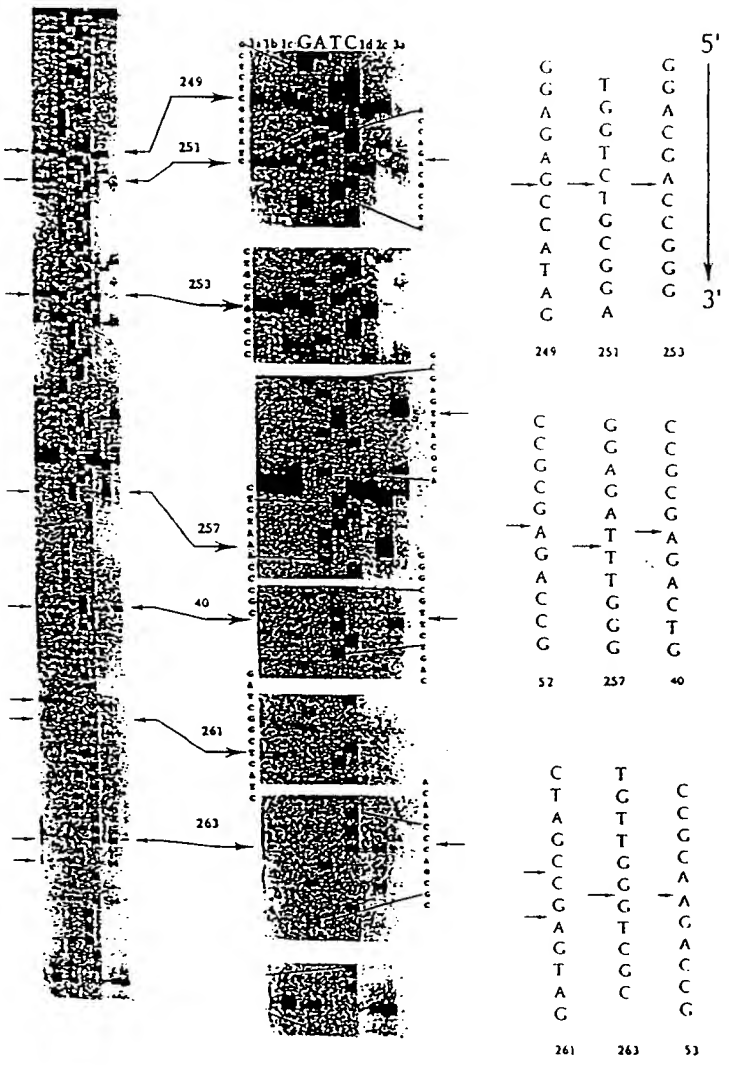

FIGURE 6

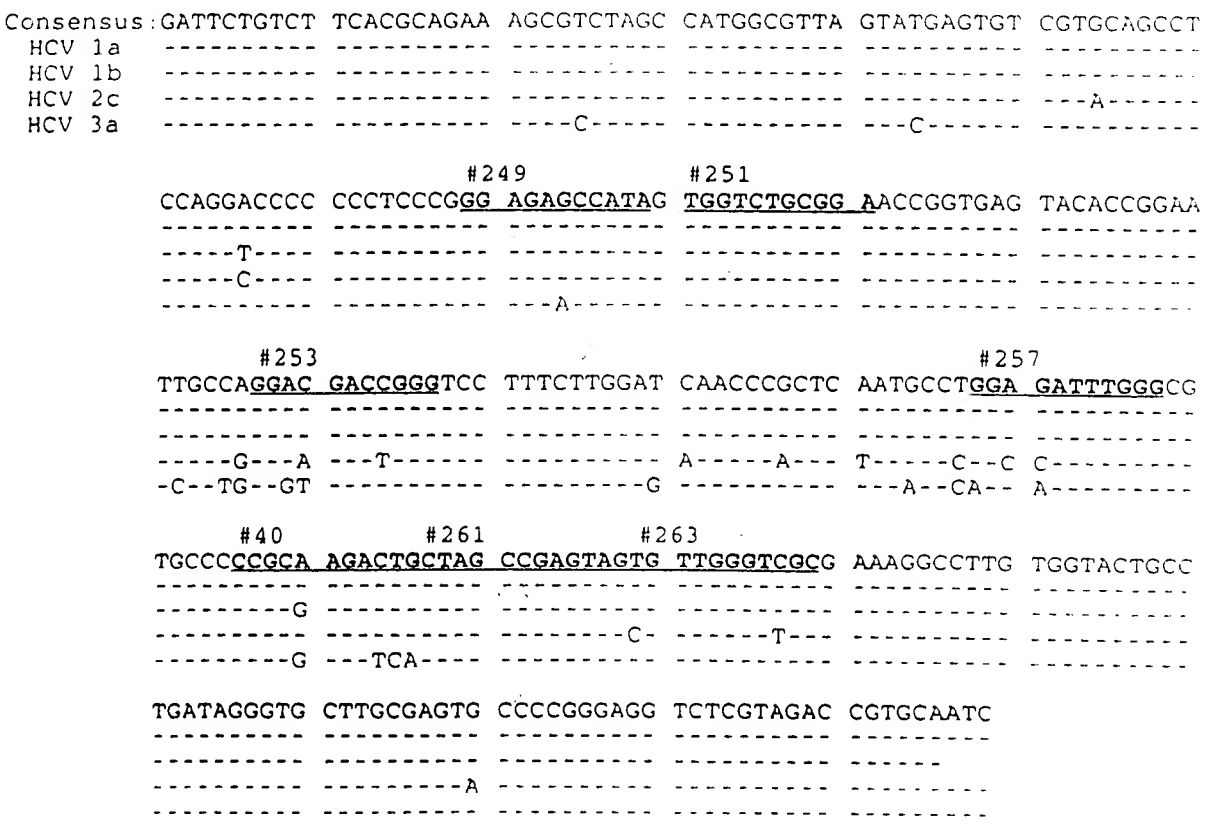

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FIGURE 7

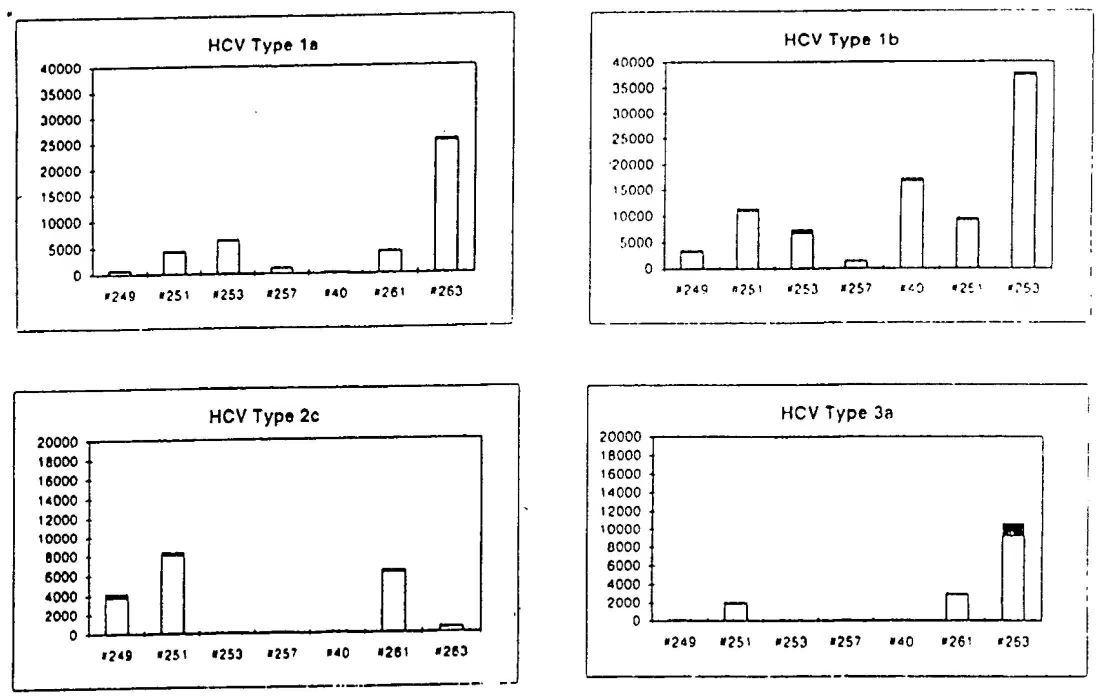
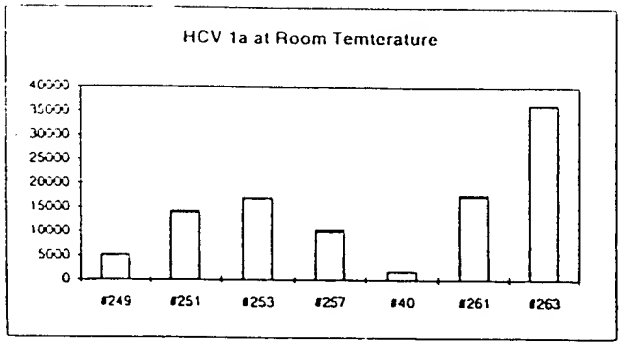
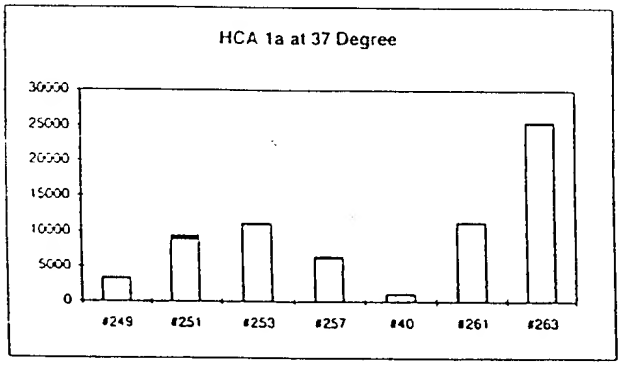


FIGURE 8A





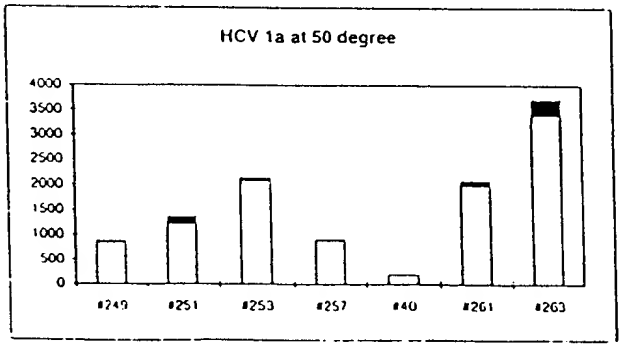


FIGURE 8B

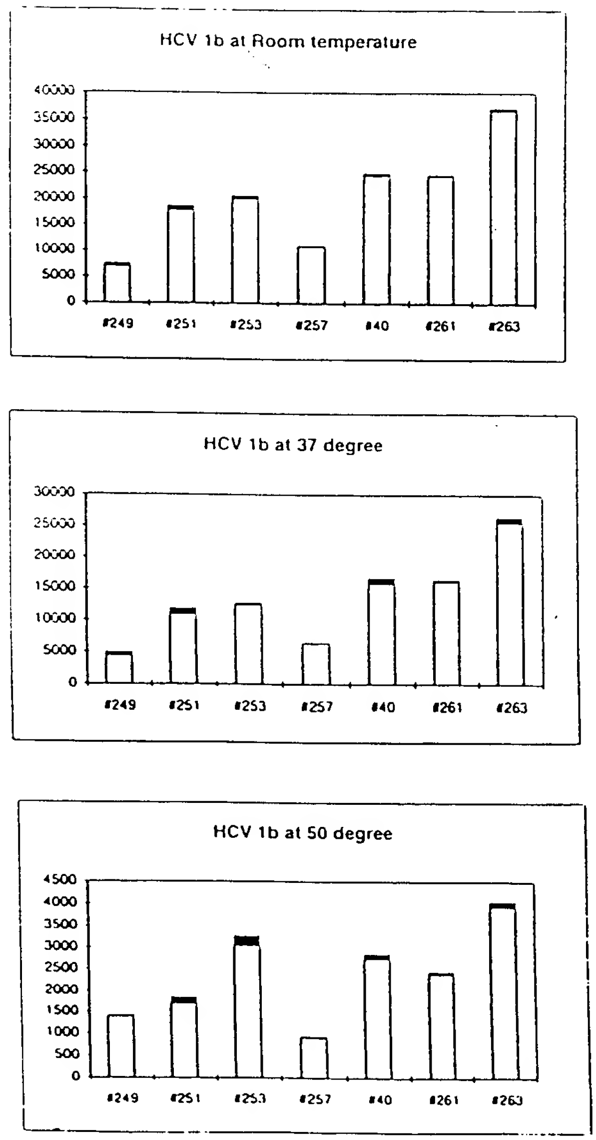
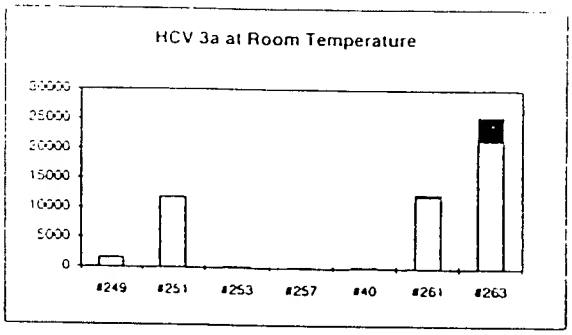
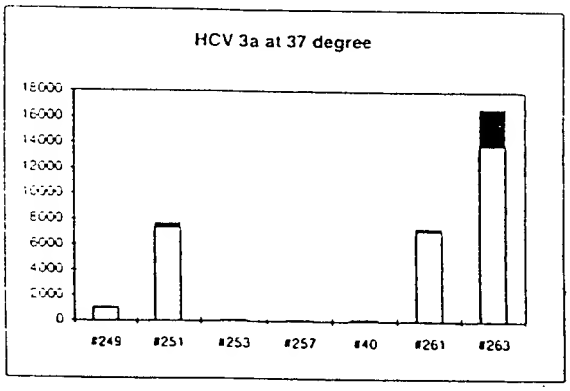


FIGURE 8C





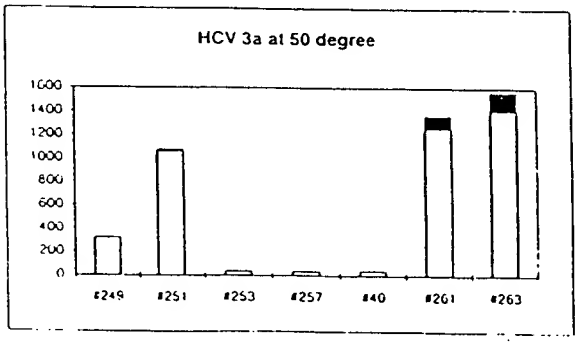


FIGURE 9A

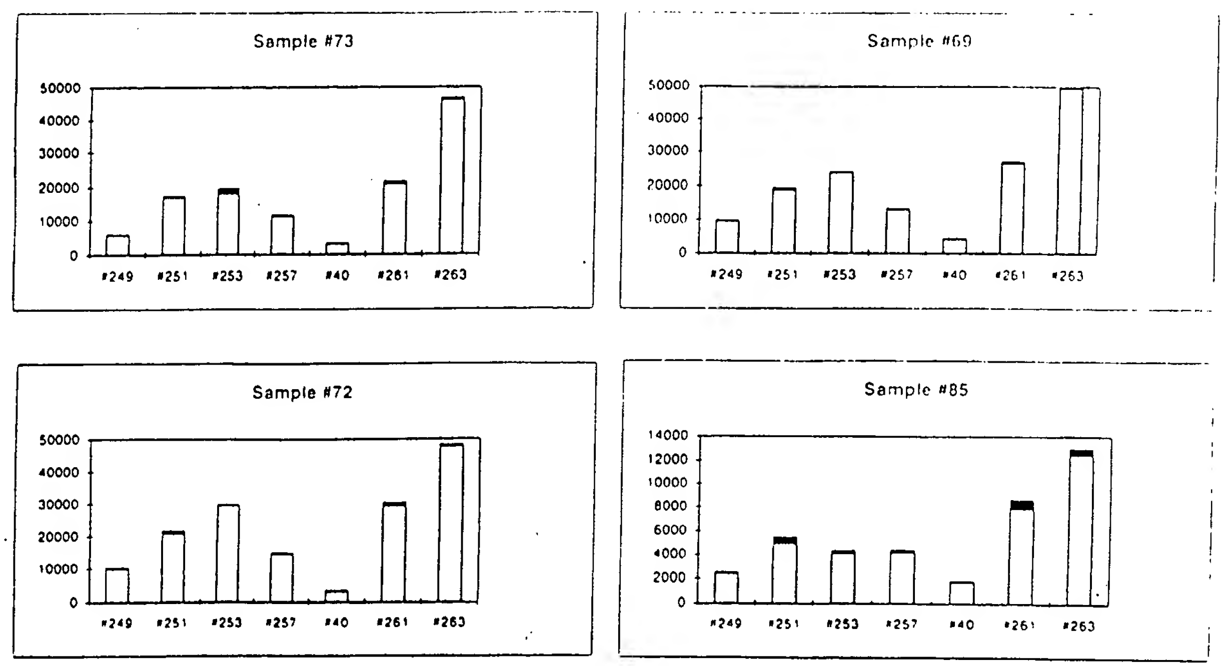


FIGURE 9B

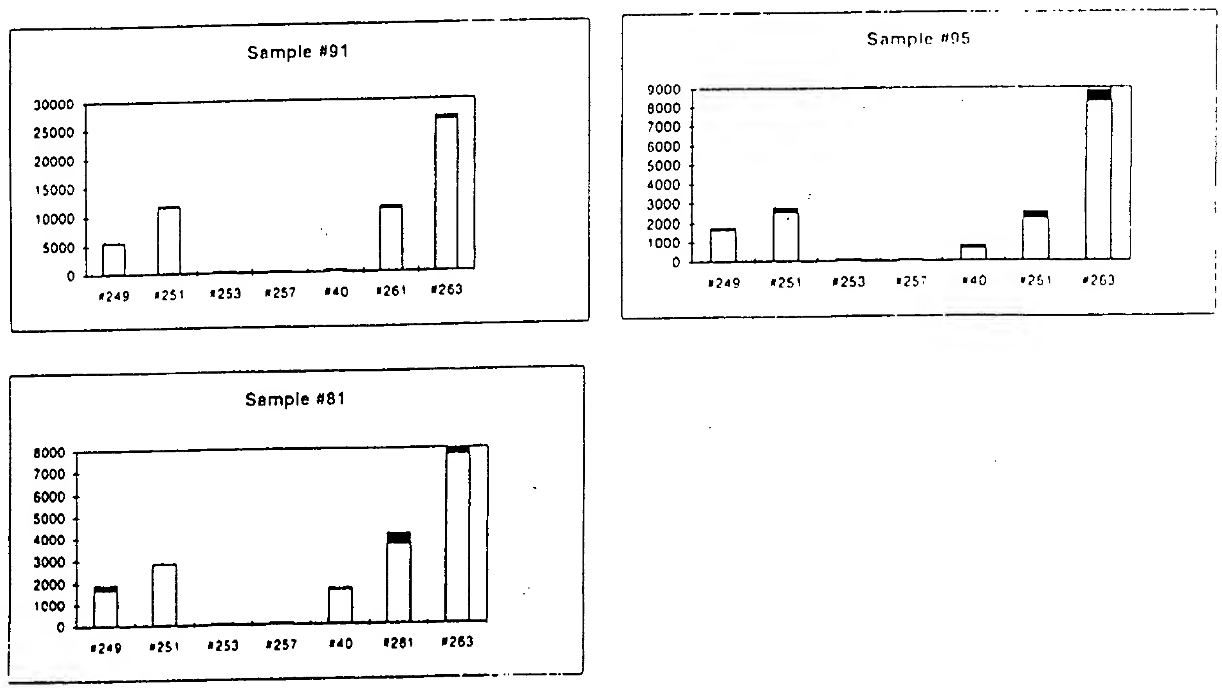


FIGURE 9C

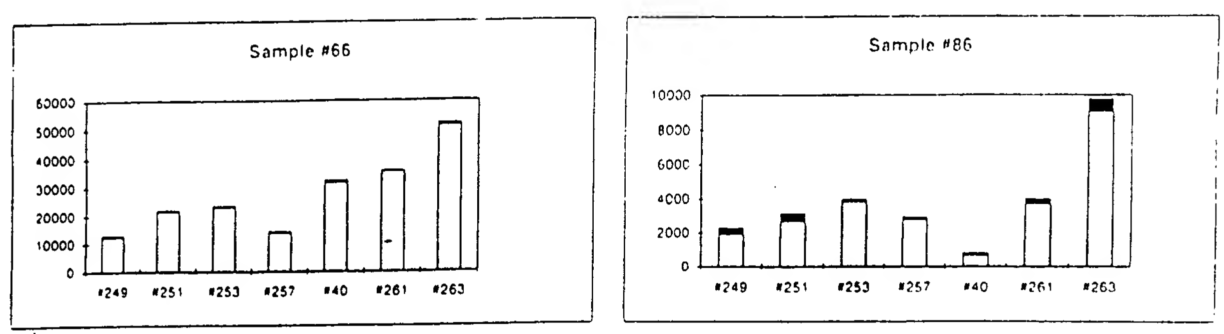
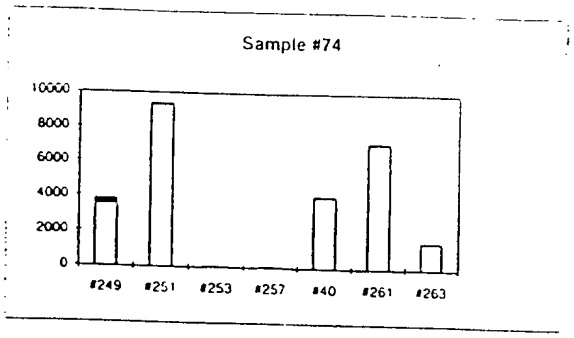


FIGURE 9D



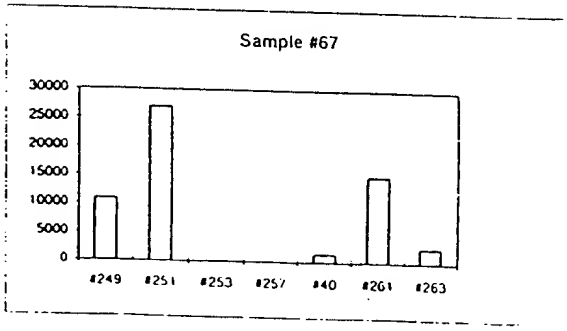


FIGURE 10

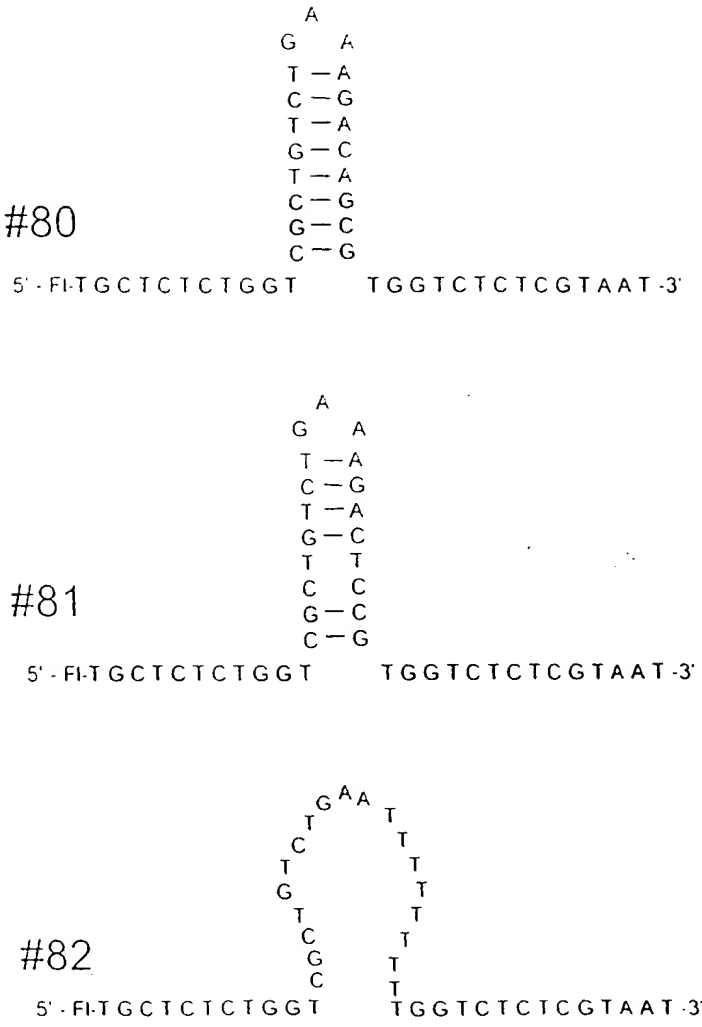


FIGURE 11A

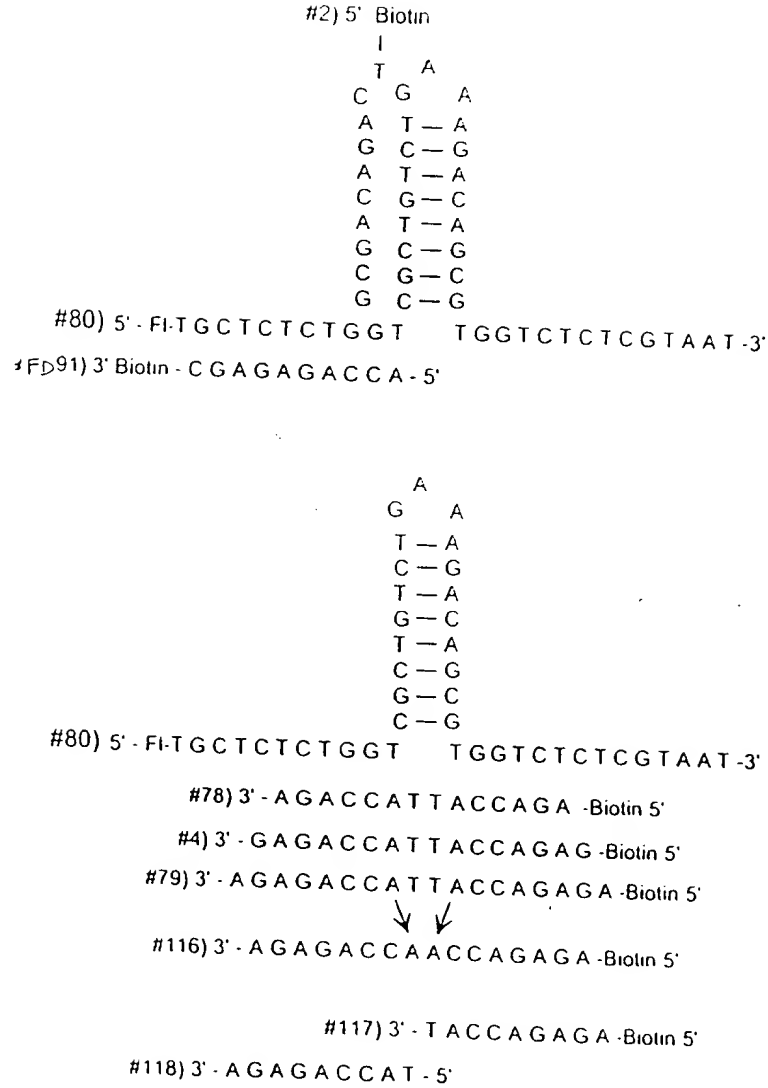


FIGURE 11B

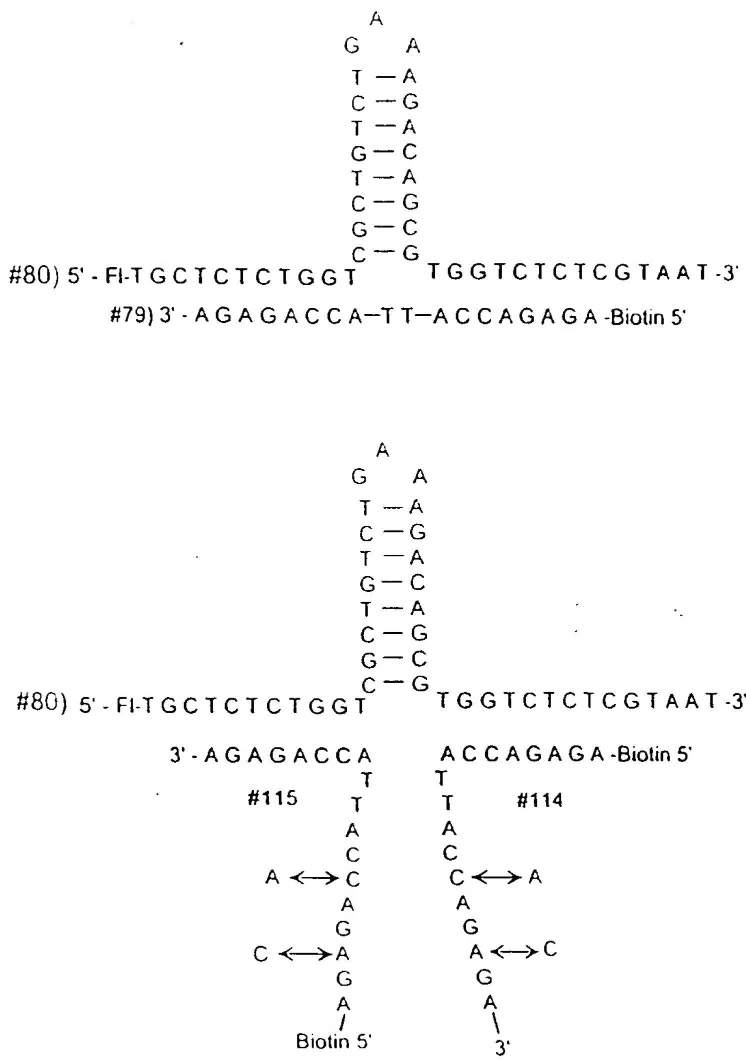


FIGURE 12

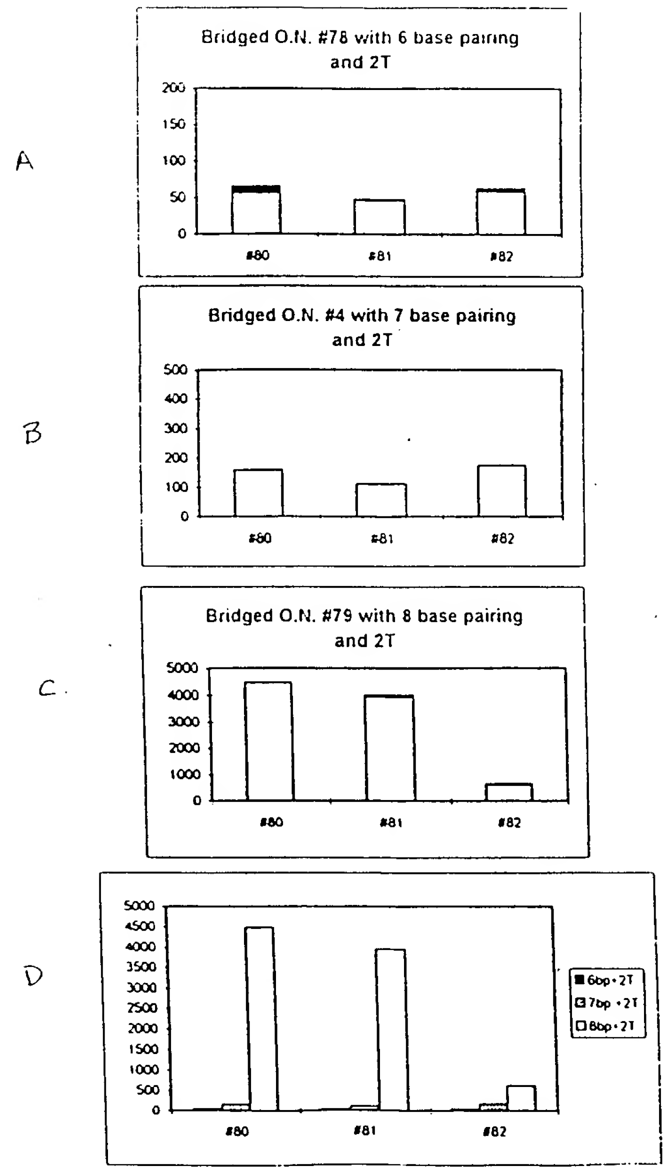


FIGURE 13A

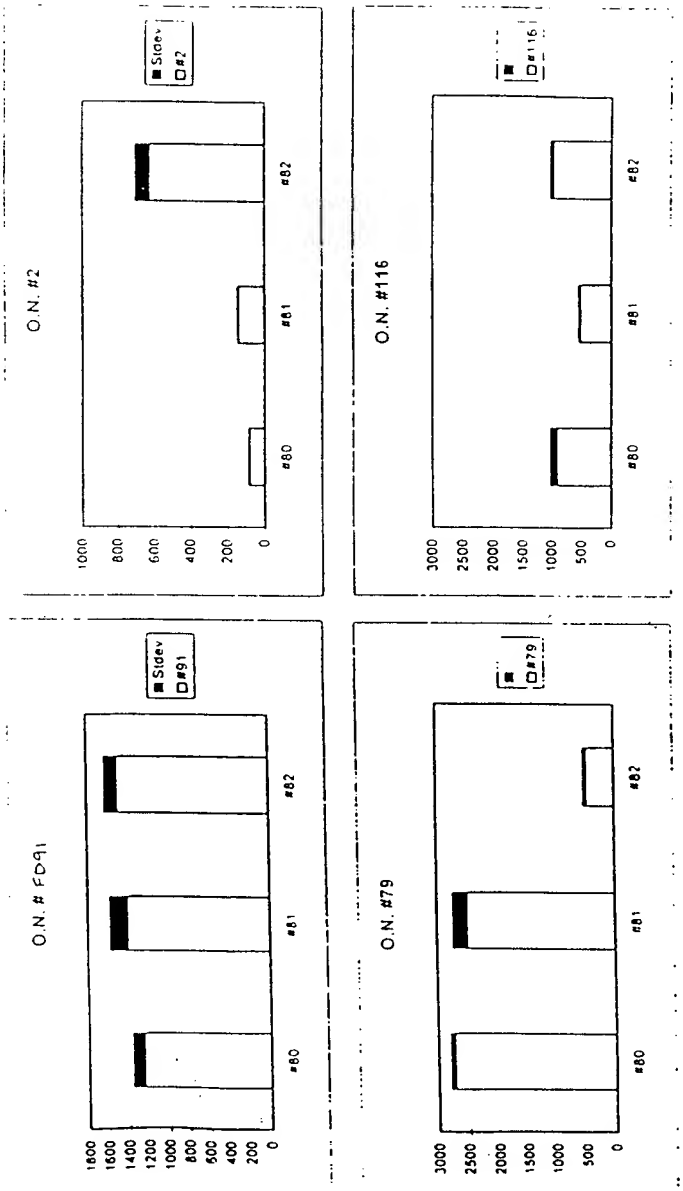


FIGURE 13B

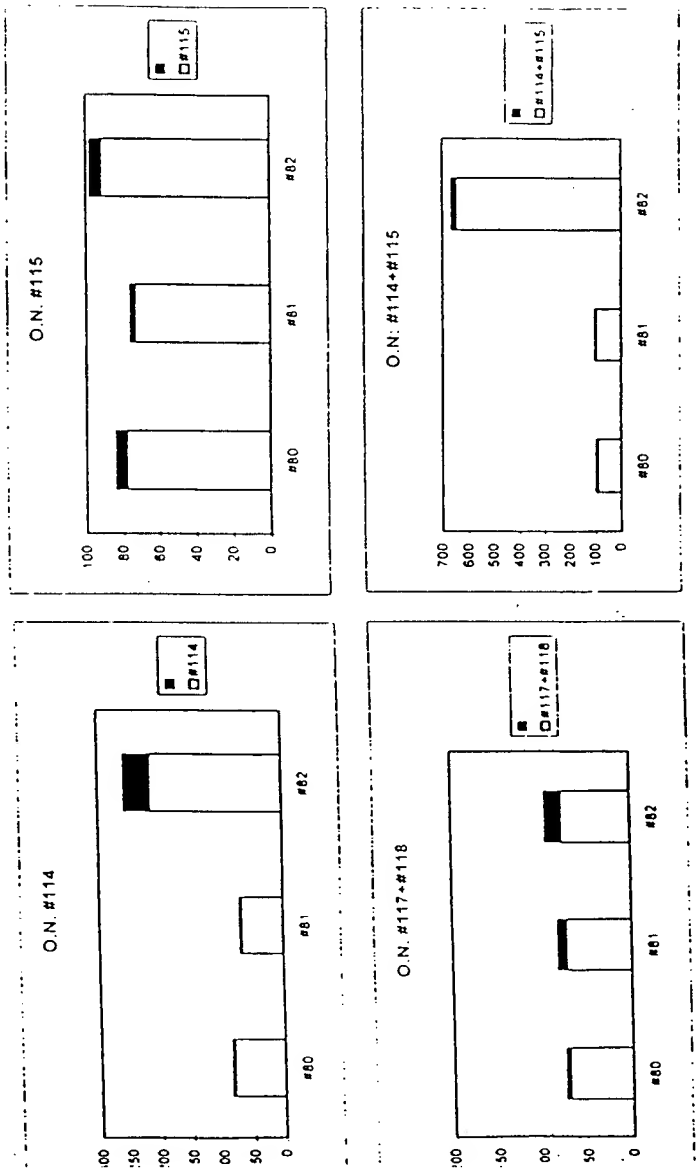
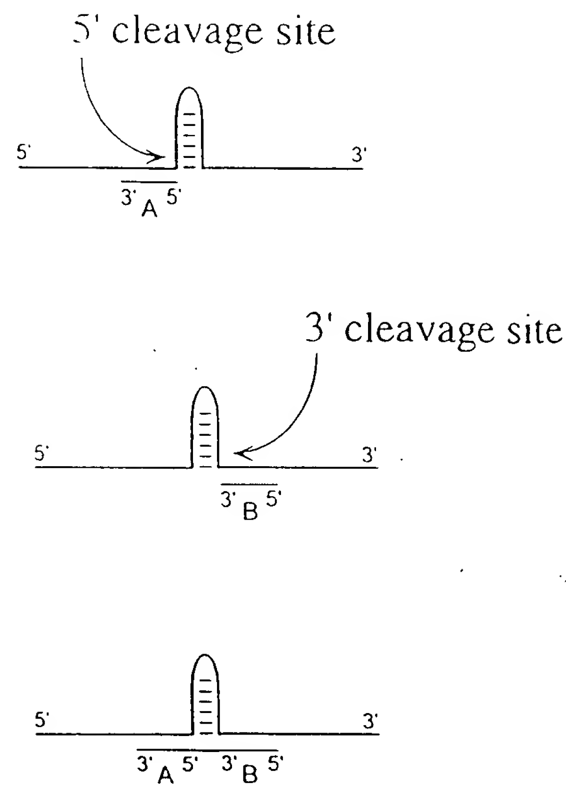


FIGURE 14



PRINT OF DRAWINGS
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FIGURE 15

```
     1-------10--------20--------30--------40--------50--------60--------70--------80
1a   CTCGCAAGCACCCTATCAGGCAGTACCACAAGGCCTTTCGCGACCCAACACTACTCGGCTAGCAGTCTTGCGGGGGCACG
1b   ...........................................................C...........
2a/c ..................................A.....G.............................
3a   ..........................................................TGA...C..........

     --------90-------100-------110-------120-------130-------140-------150-------160
1a   CCCAAATCTCCAGGCATTGAGCGGGTTTATCCAAGAAAGGACCCGGTCGTCCTGGCAATTCCGGTGTACTCACCGGTTCC
1b   ..........................G.....................................................
2a/c .....GG..G.....A...T......................A...T...C...........................
3a   .......T..TG..T..........GT...................AC..CA..G.........................

     -------170-------180-------190-------200-------210-------220-------230-------240
1a   GCAGACCACTATGGCTCTCCCGGGAGGGGGGGTCCTGGAGGCTGCACGACACTCATACTAACGCCATGGCTAGACGCTTTCTGC
1b   ................................................................................
2a/c .................................G..........T...................................
3a   ...................................................G............................
```

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PRINT OF DRAWING
AS ORIGINALLY FIL

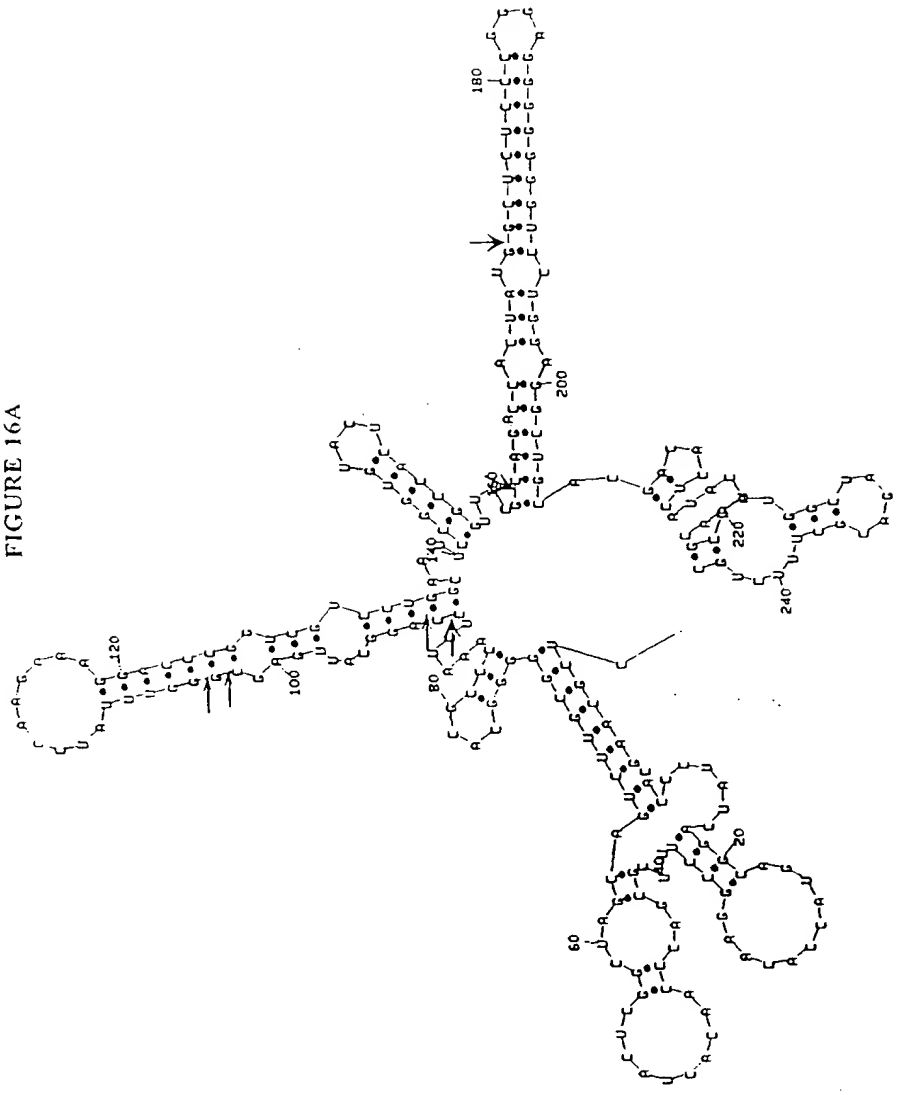


FIGURE 16A

PRINT OF DRAWINGS
AS ORIGINALLY FIL

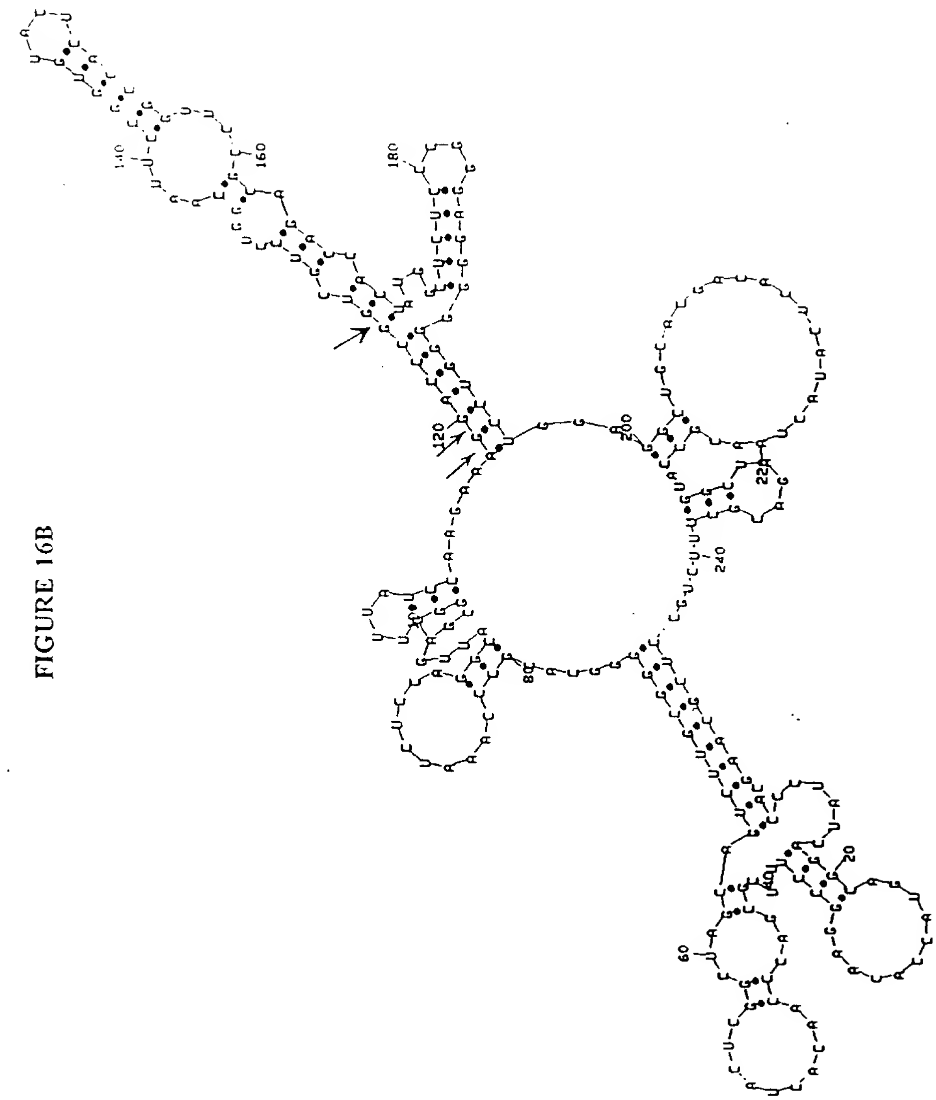
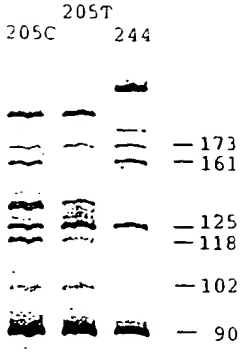


FIGURE 16B

FIGURE 17A



PRINT OF DRAWING
AS ORIGINALLY FI

FIGURE 17B

PRINT OF DRAWING
AS ORIGINALLY FILED

FIGURE 17C

FIGURE 18A

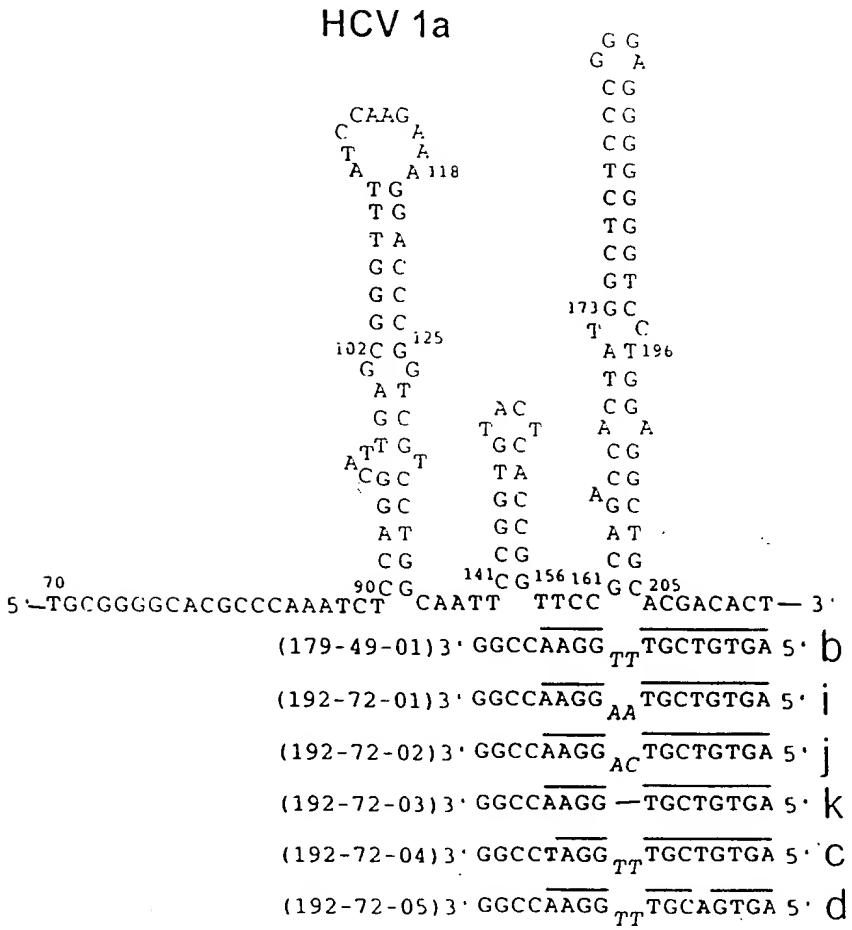


FIGURE 18B

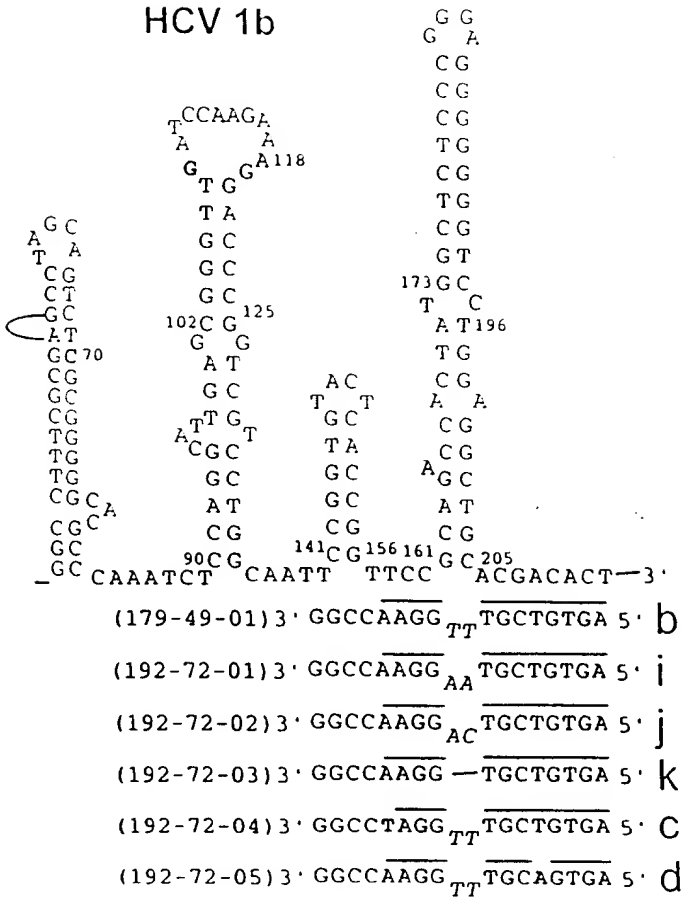
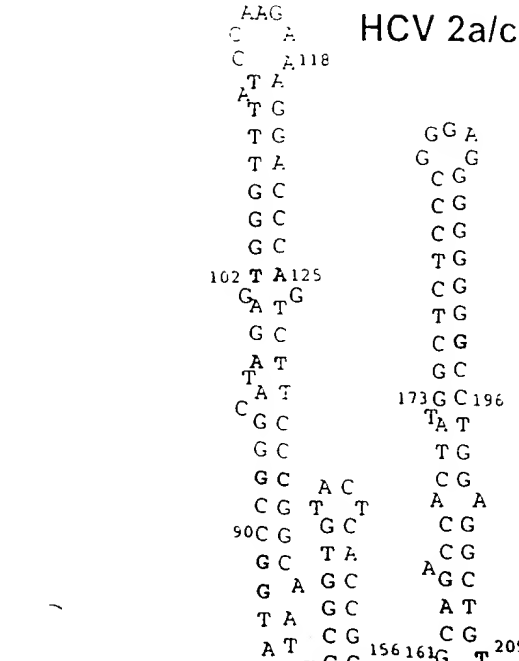


FIGURE 18C



5' ——CACGCCCAA T C G TTCC G T ACGACACT —— 3'

(179-49-01) 3' GGCCAAGG TT TGCTGTGA 5' b

(192-72-01) 3' GGCCAAGG AA TGCTGTGA 5' i

(192-72-02) 3' GGCCAAGG AC TGCTGTGA 5' j

(192-72-03) 3' GGCCAAGG — TGCTGTGA 5' k

(192-72-04) 3' GGCCTAGG TT TGCTGTGA 5' c

(192-72-05) 3' GGCCAAGG TT TGCAGTGA 5' d

FIGURE 18D

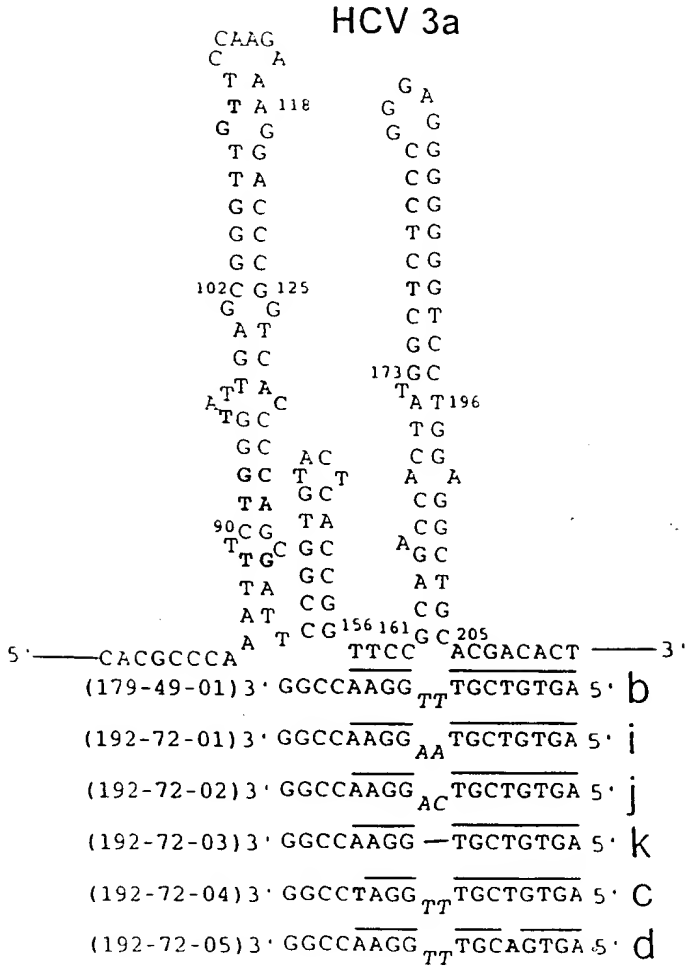
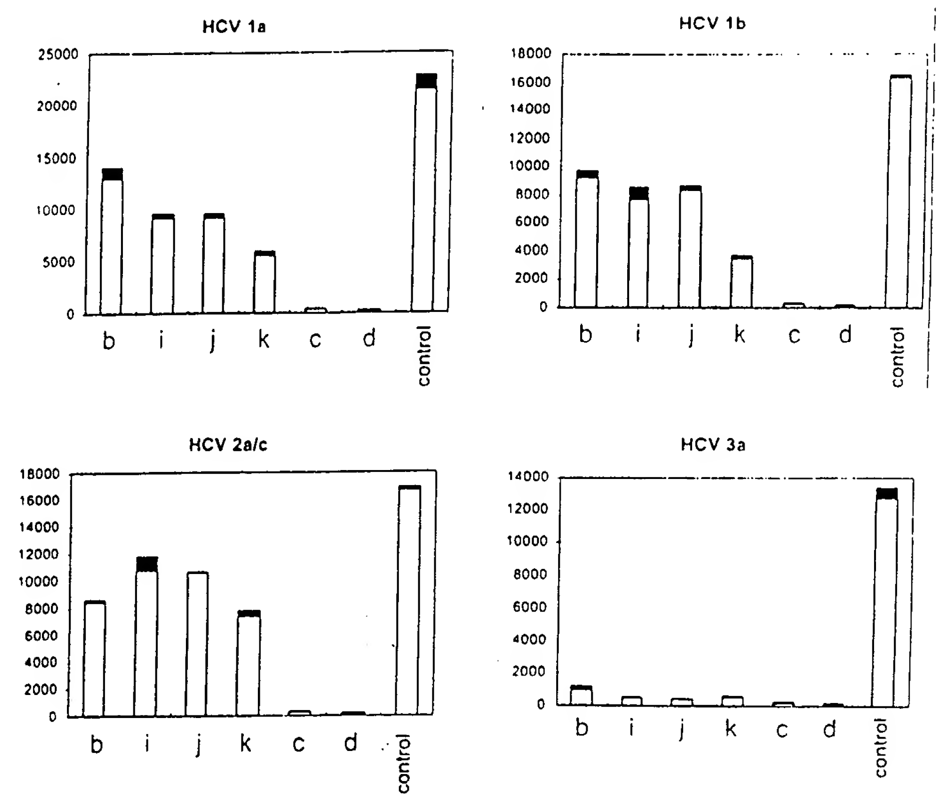


FIGURE 19



PRINT OF DRAWING
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FIGURE 20A

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FIGURE 20B

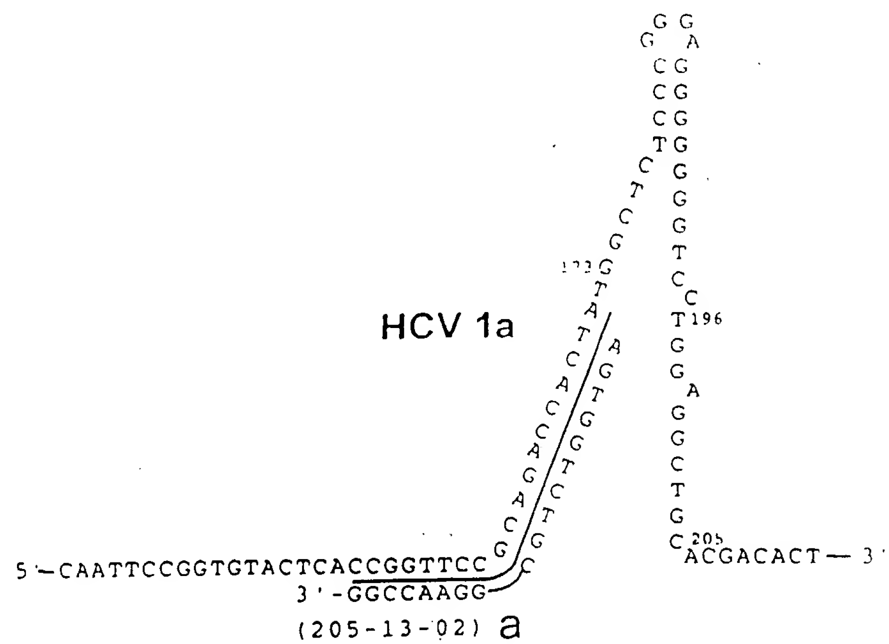

FIGURE 21

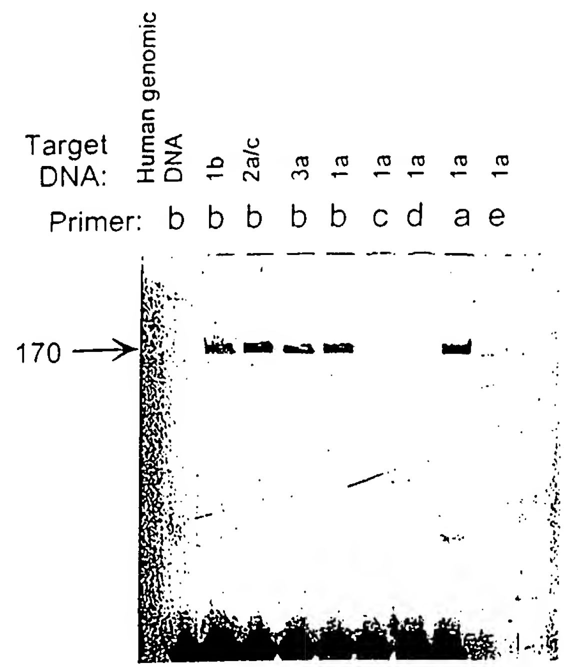

FIGURE 22

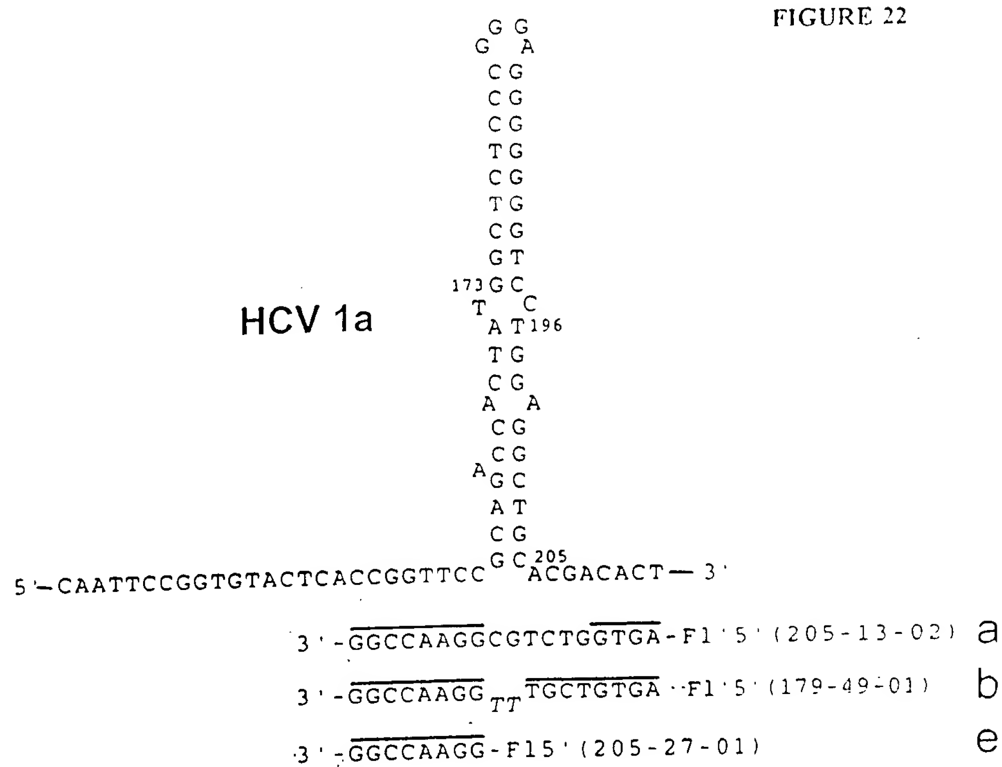

FIGURE 23

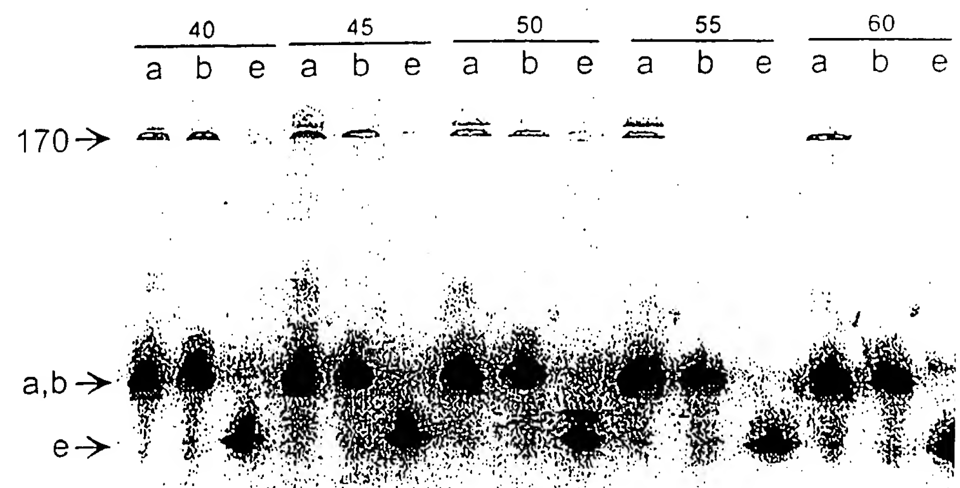

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FIGURE 24

FIGURE 25

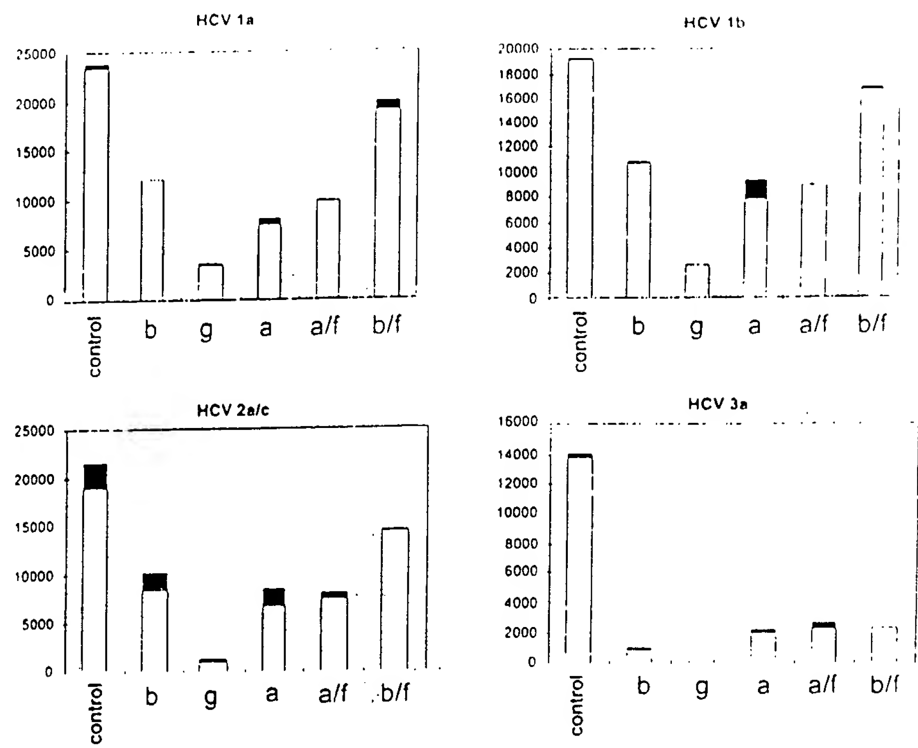

FIGURE 26

```
                        5'-ATTCCGGTGTACTCACCGGTTCCAAACGACACT-3'(205-13-01) S.T.
f (192-96-01)3'-TAAGGCCACATGAGT-5'
                                       3'-GGCCAAGGCGTCTGGTGA-F1'5'(205-13-02) a
                                       3'-GGCCAAGG TT TGCTGTGA-F1'5'(179-49-01) b
                                       3'-GGCCTAGG TT TGCTGTGA-F1'5'(192-72-04) c
                                       3'-GGCCAAGG TT TGCAGTGA F1'5'(192-72-05) d
                                       3'-GGCCAAGG-F15'(205-27-01) e
```

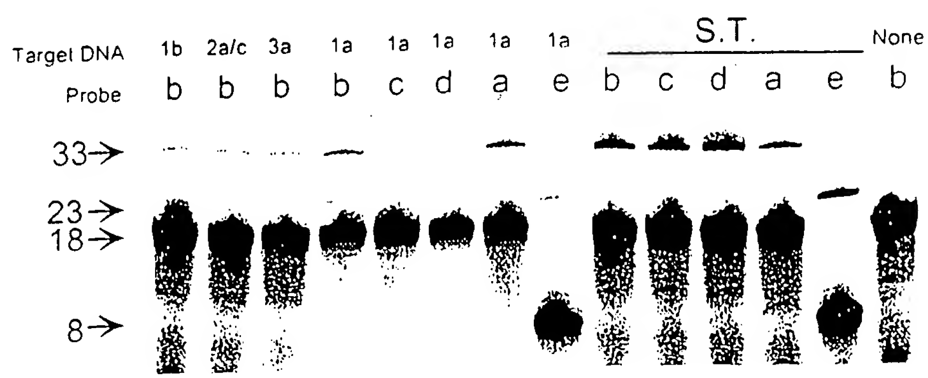

FIGURE 27

FIGURE 28

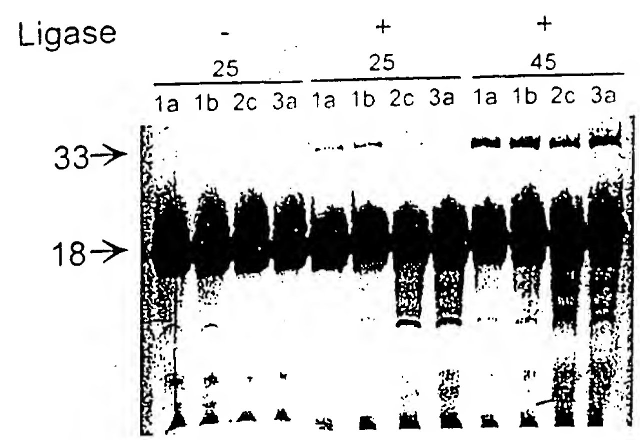

FIGURE 29A

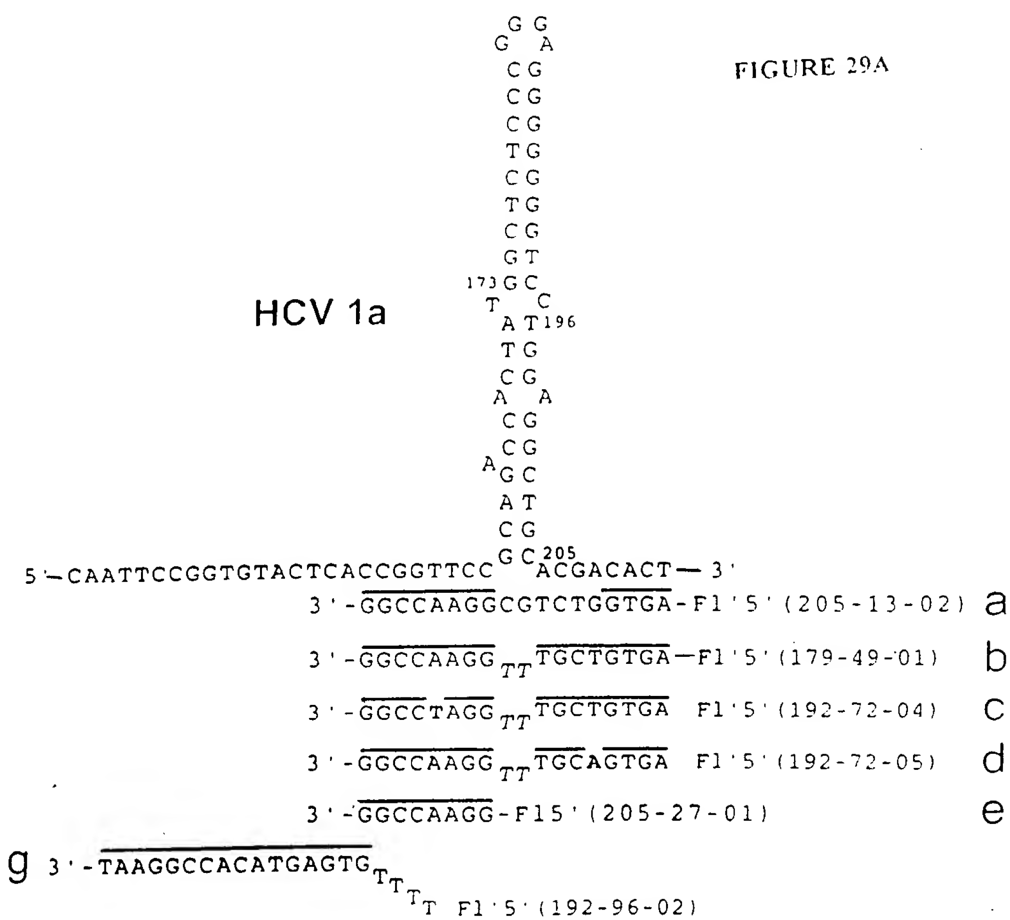

FIGURE 29B

```
5'-ATTCCGGTGTACTCACCGGTTCCAAACGACACT-3'(205-13-01)   S.T.
                                3'-GGCCAAGGCGTCTGGTGA-F1'5'(205-13-02)   a
                                3'-GGCCAAGG TT TGCTGTGA--F1'5'(179-49-01)   b
                                3'-GGCCTAGG TT TGCTGTGA--F1'5'(192-72-04)   c
                                3'-GGCCAAGG TT TGCAGTGA--F1'5'(192-72-05)   d
                                3'-GGCCAAGG-F15'(205-27-01)   e
g 3'-TAAGGCCACATGAGTG TTTT-F1'5'(192-96-02)
```

FIGURE 30

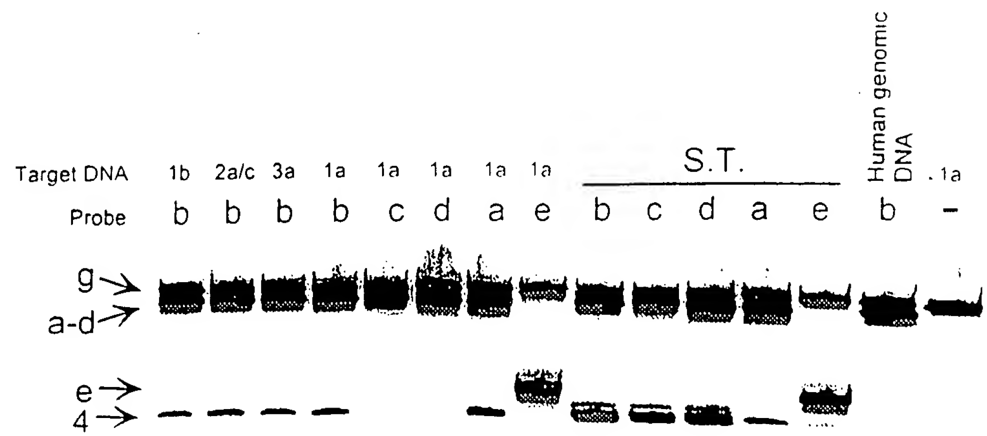

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FIGURE 31

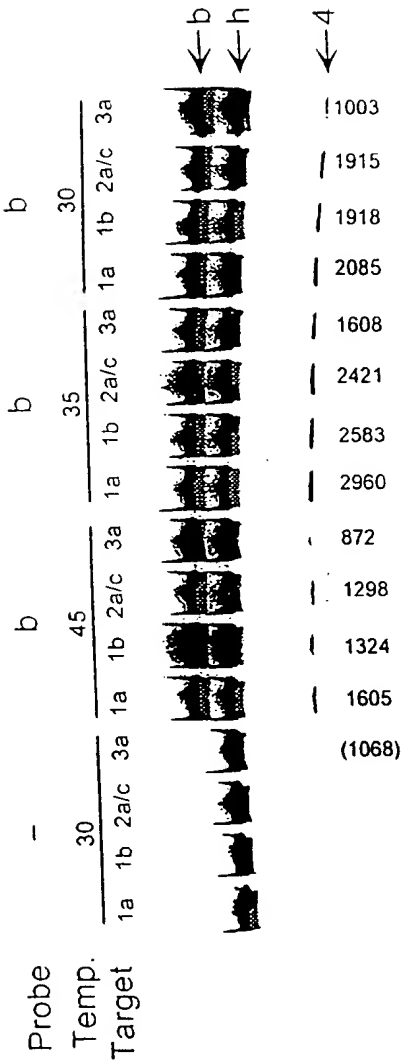

FIGURE 32

PRINT OF DRAWING
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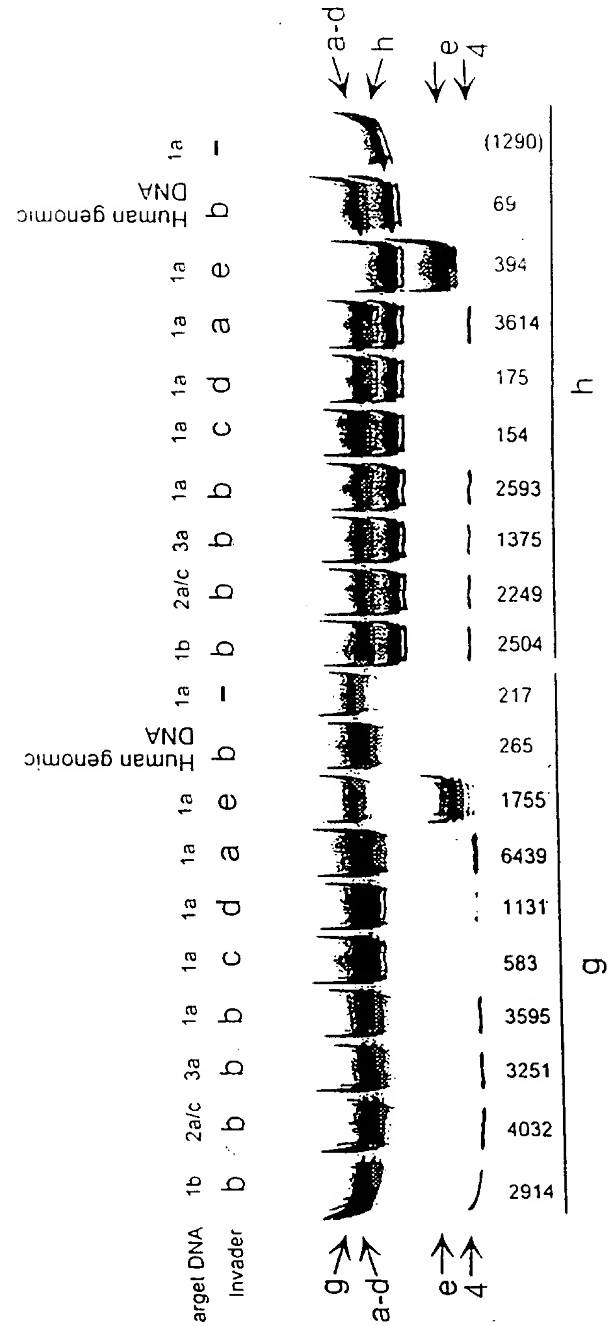


FIGURE 33

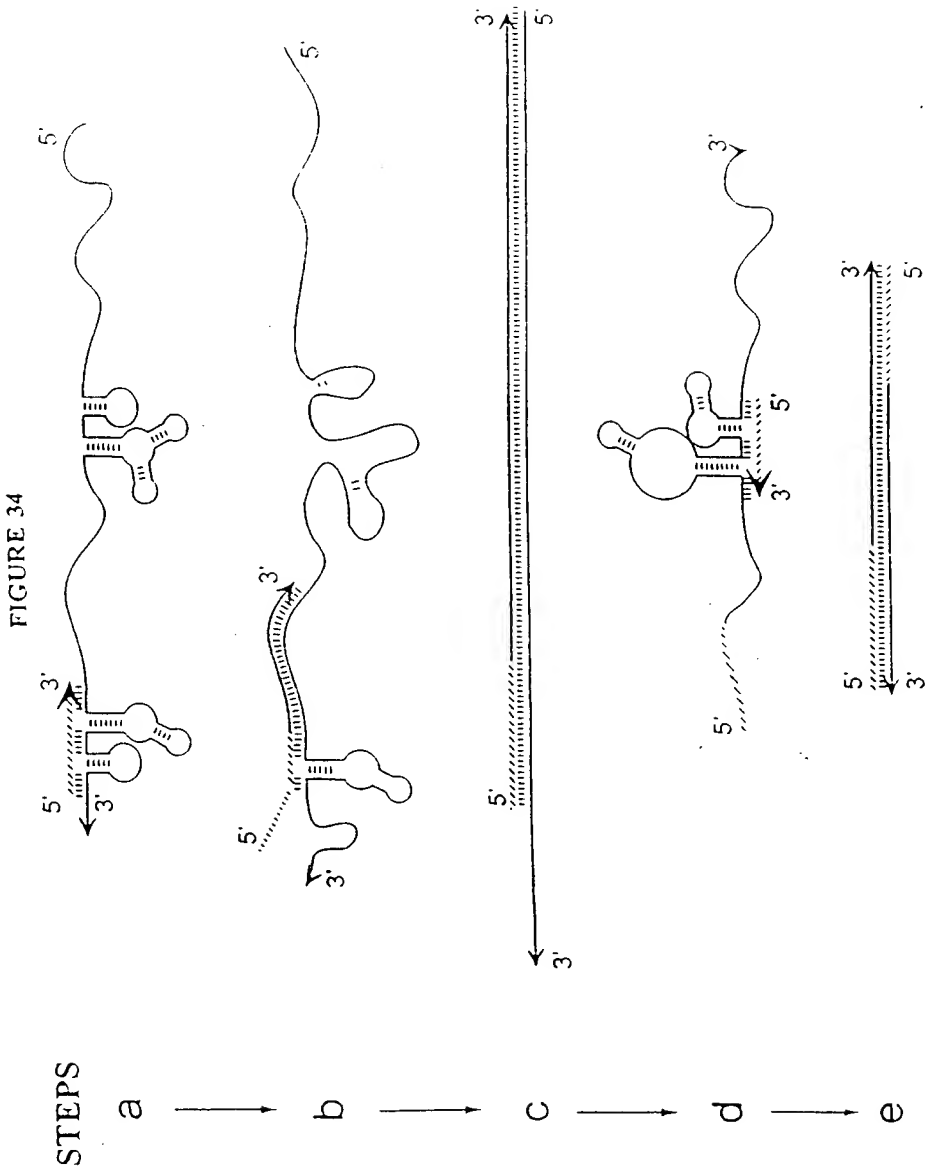


FIGURE 34

FIGURE 35

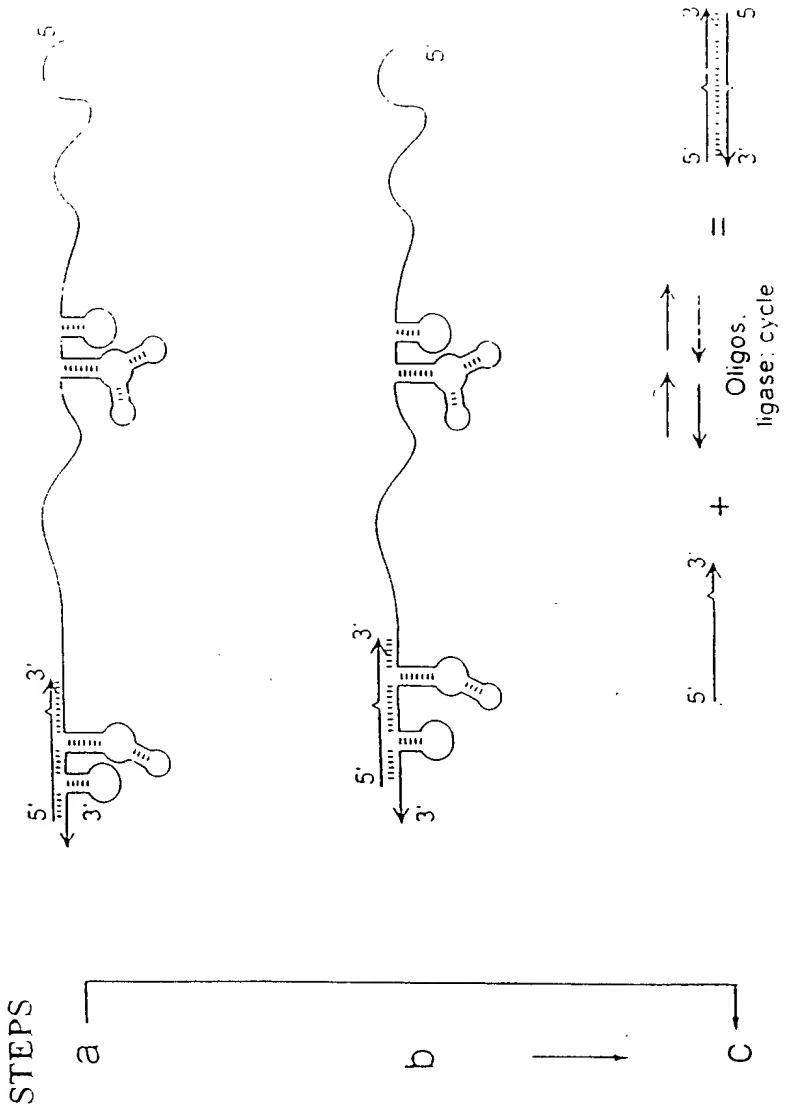


FIGURE 36

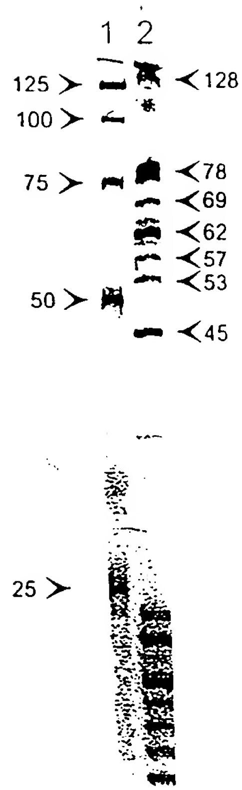
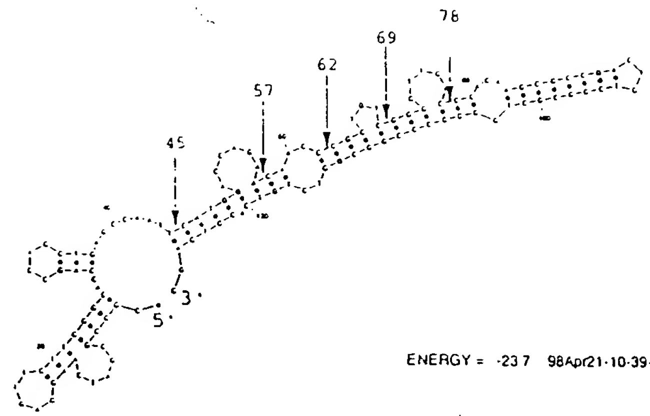


FIGURE 37A



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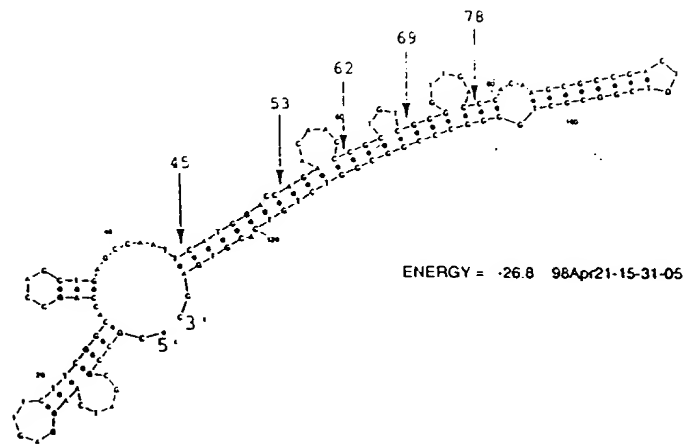

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FIGURE 37B

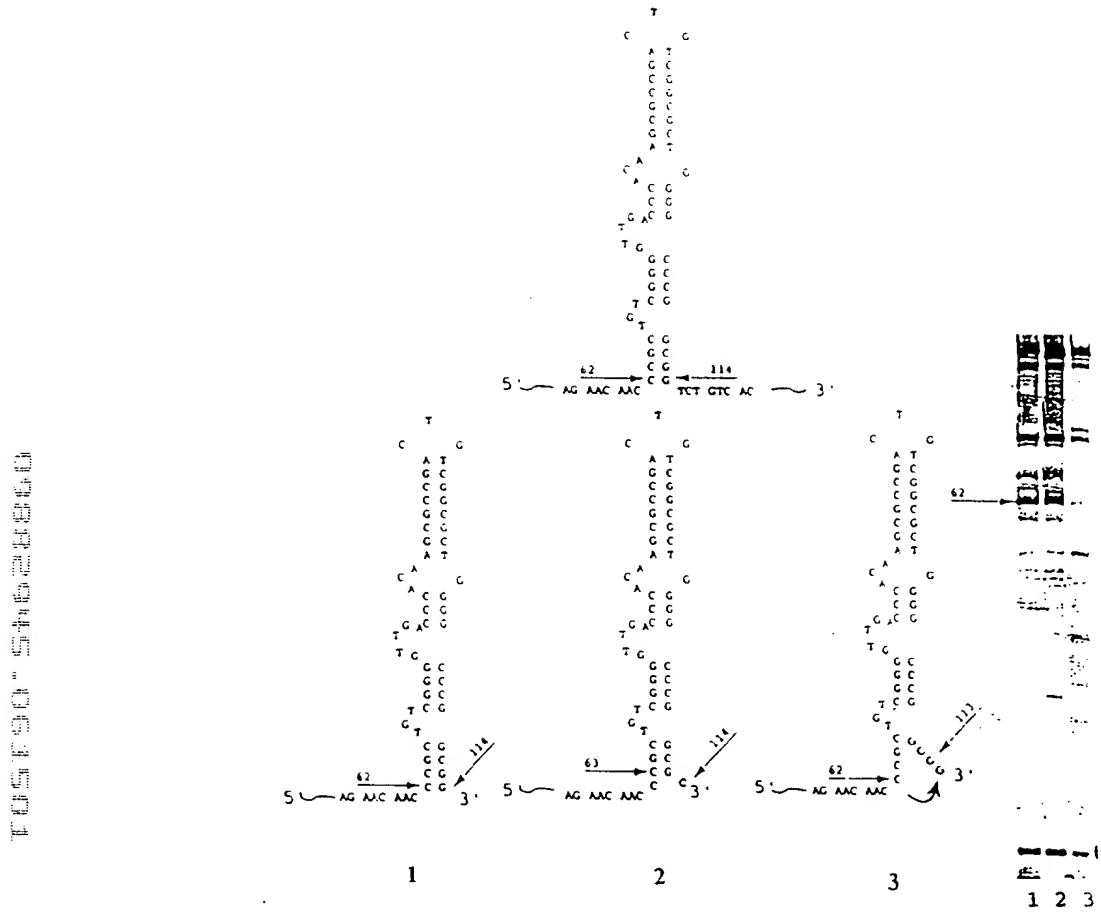

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FIGURE 37C

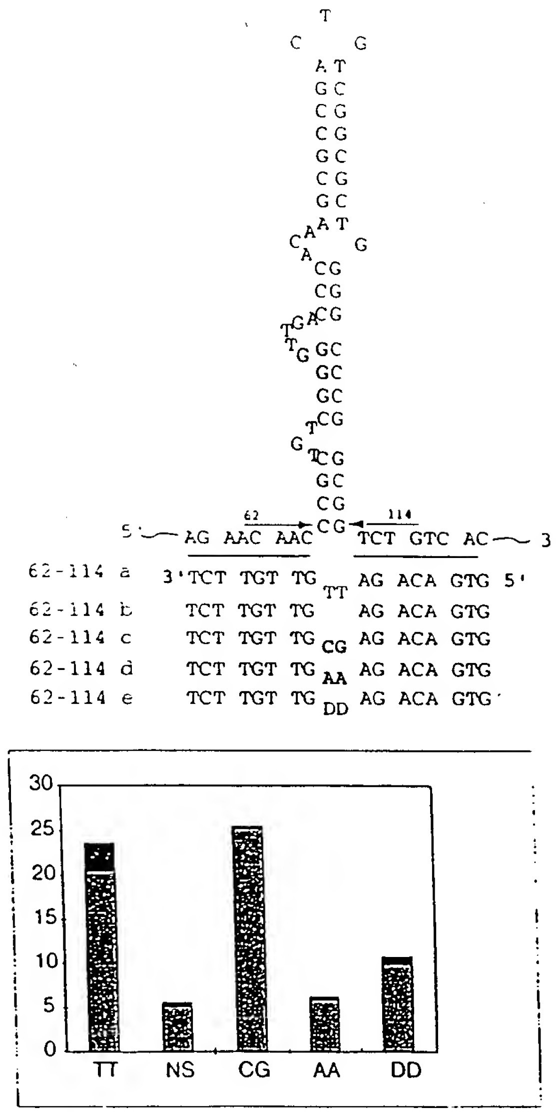


FIGURE 38A

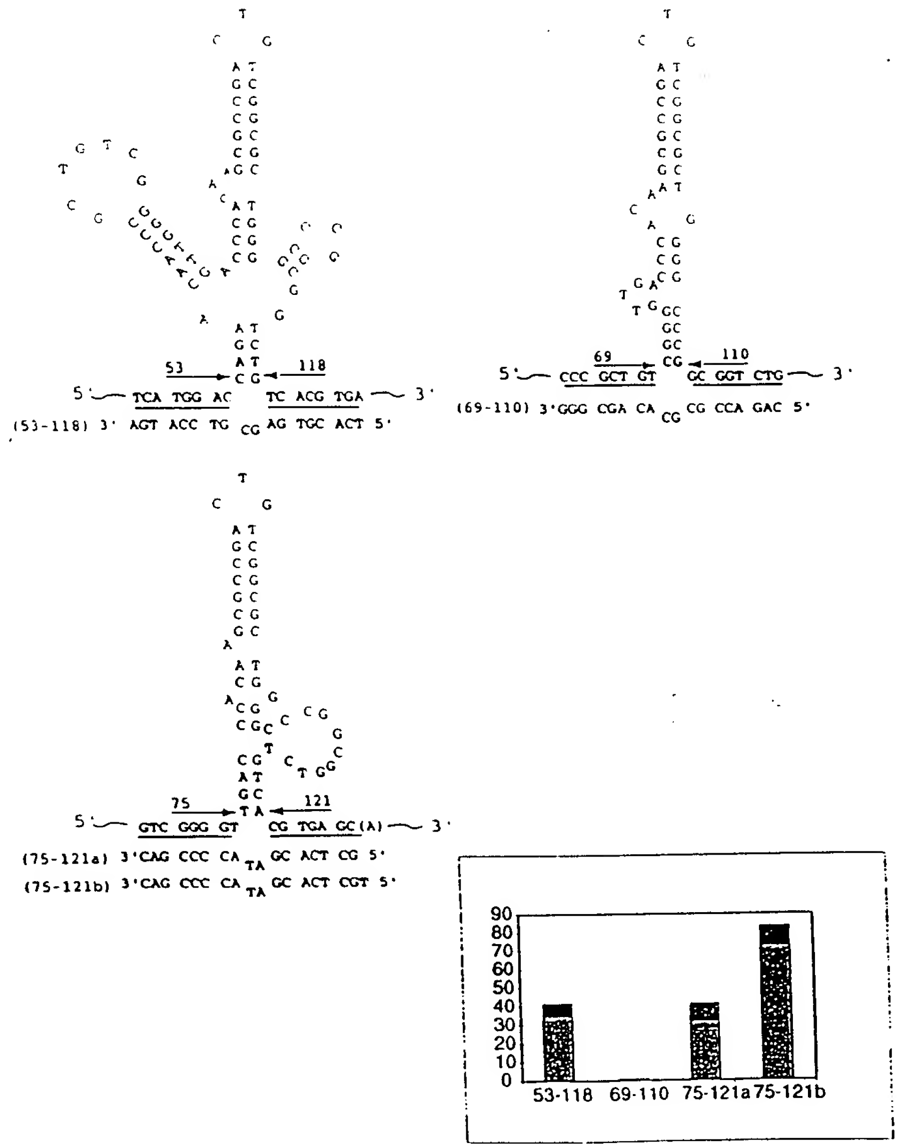


FIGURE 38B

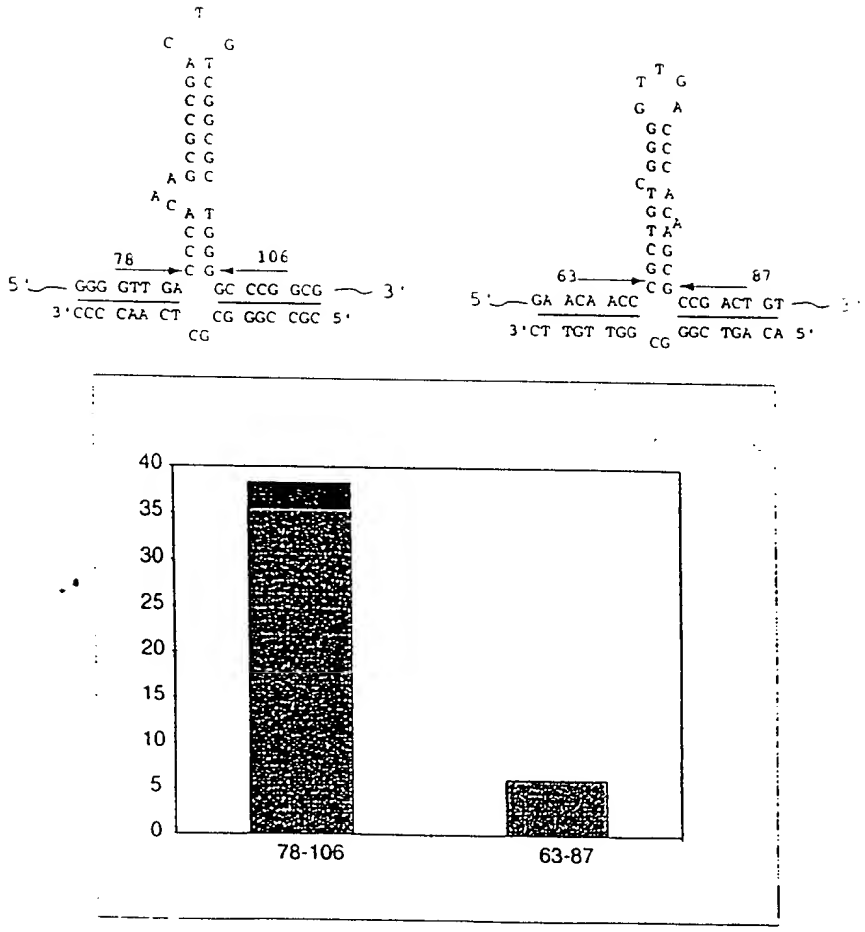


FIGURE 38C

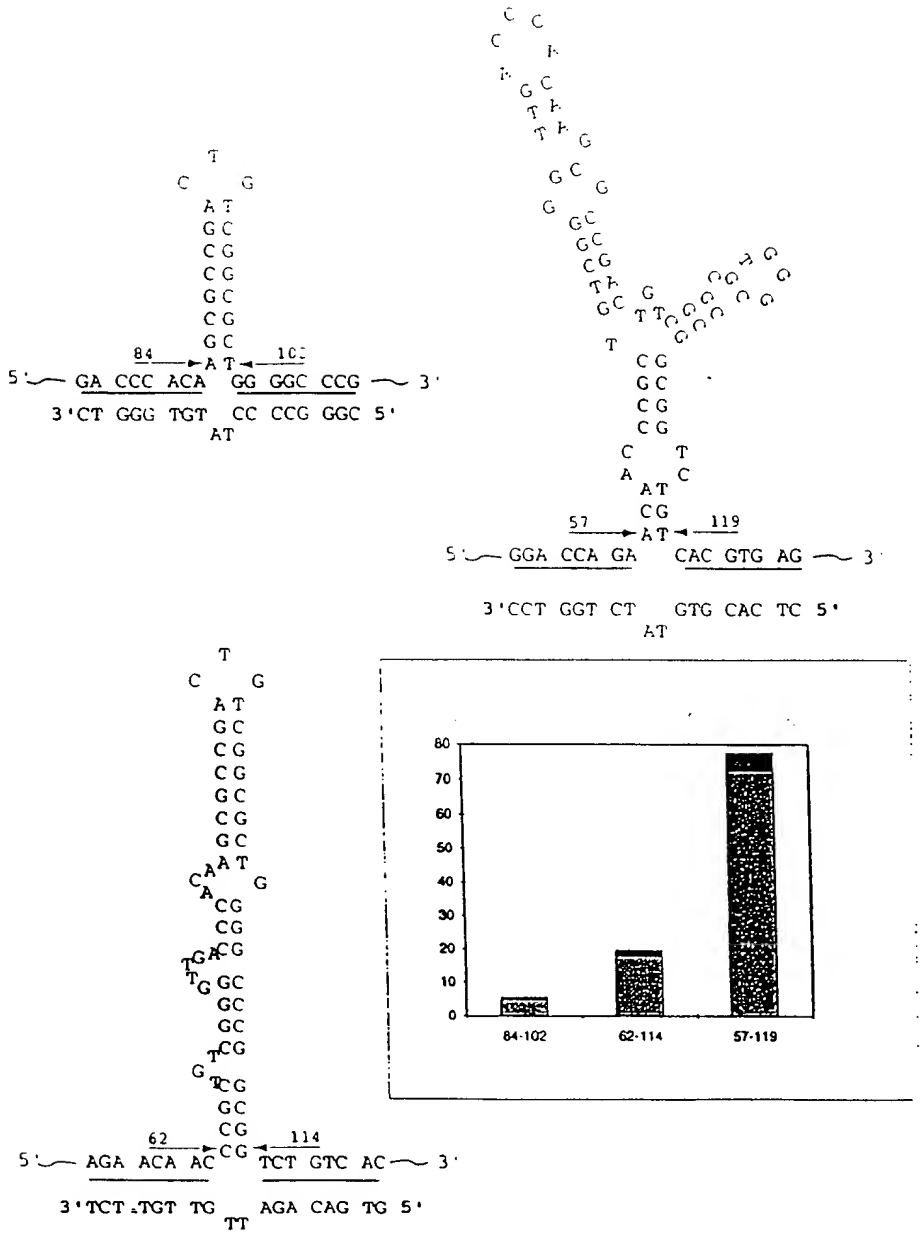


FIGURE 39

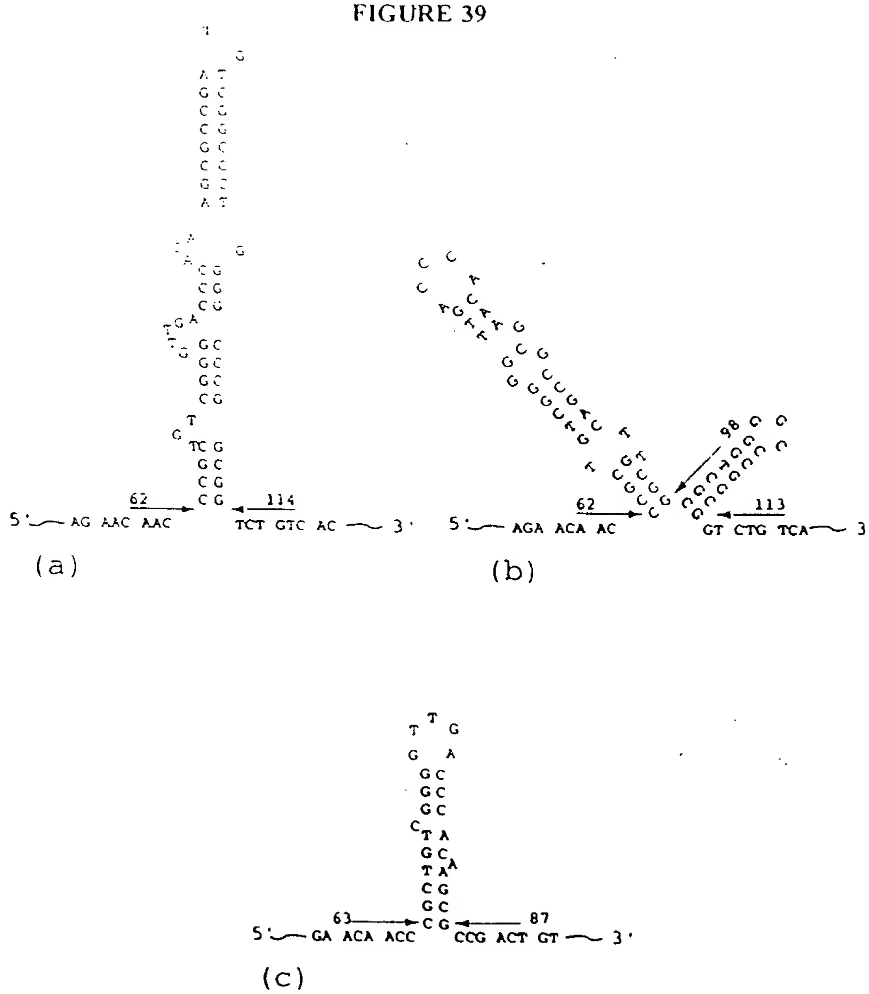
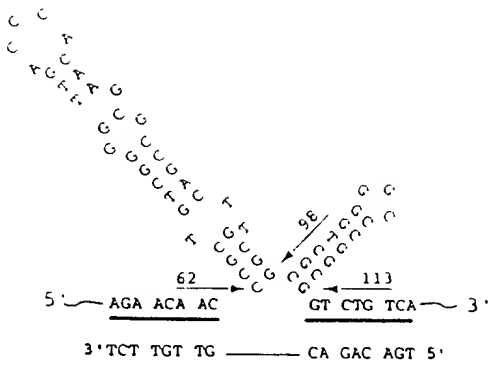


FIGURE 40



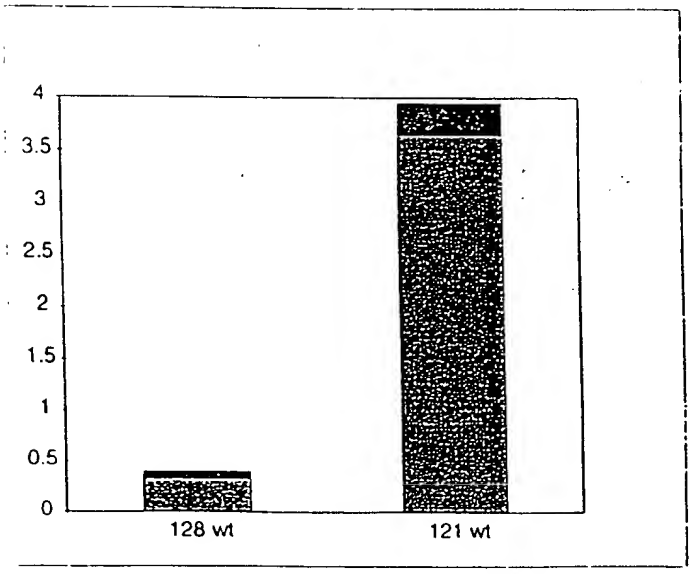
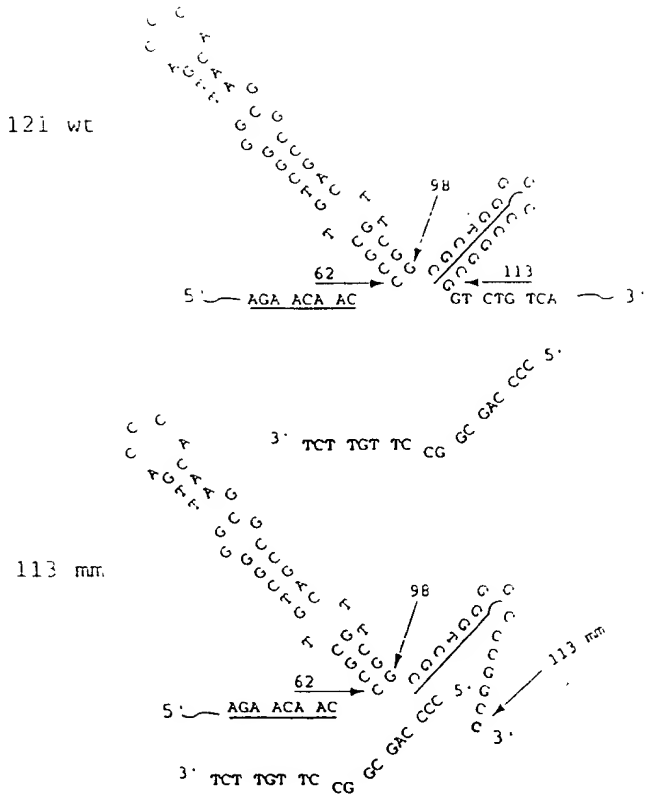


FIGURE 41



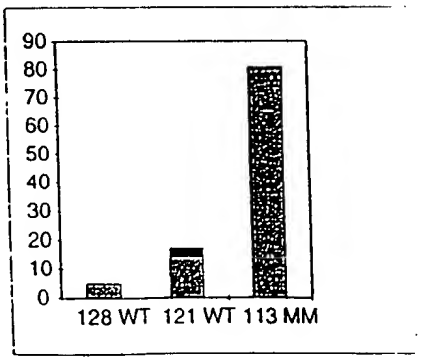


FIGURE 42

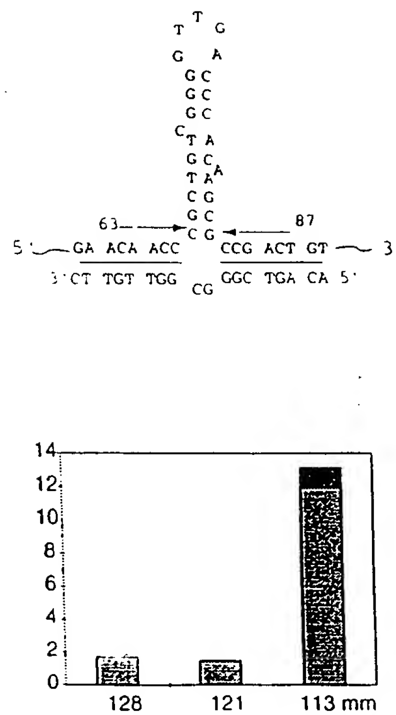


FIGURE 43A

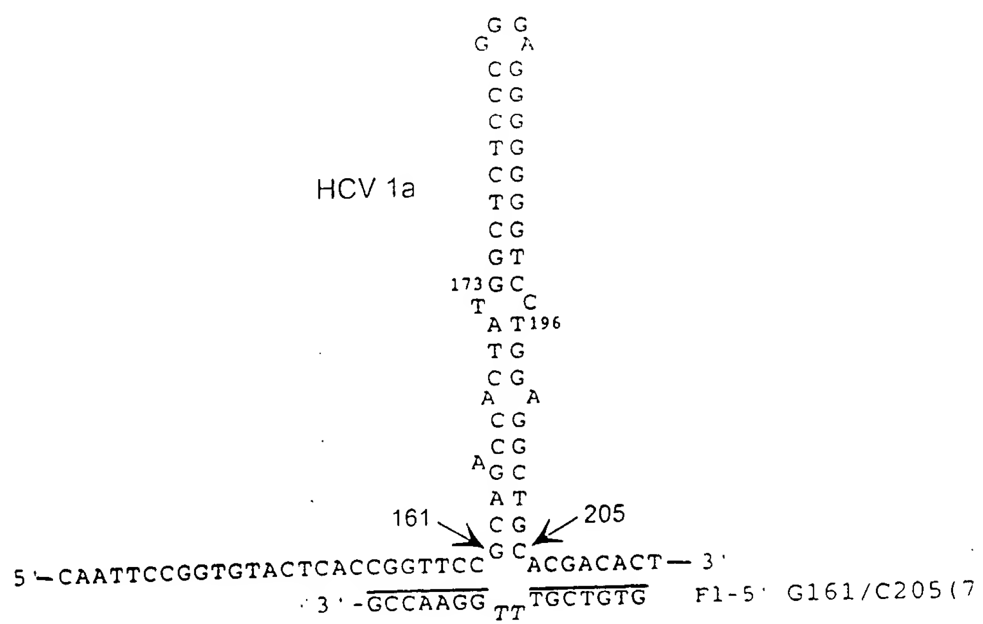


FIGURE 43B

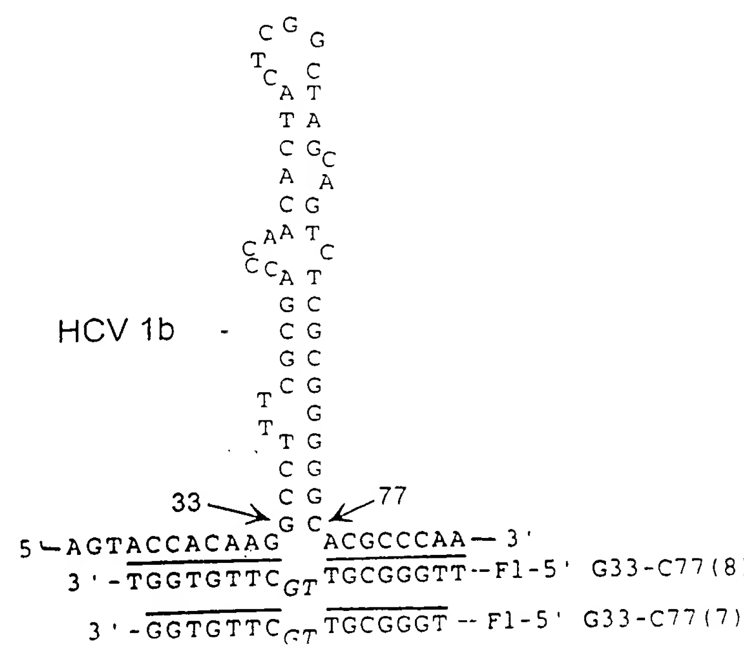


FIGURE 44A

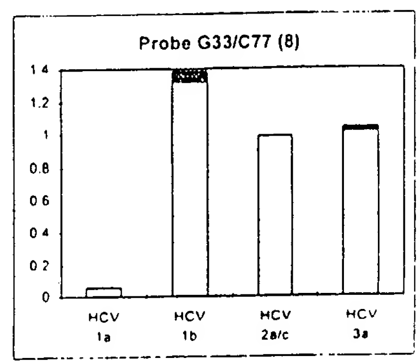
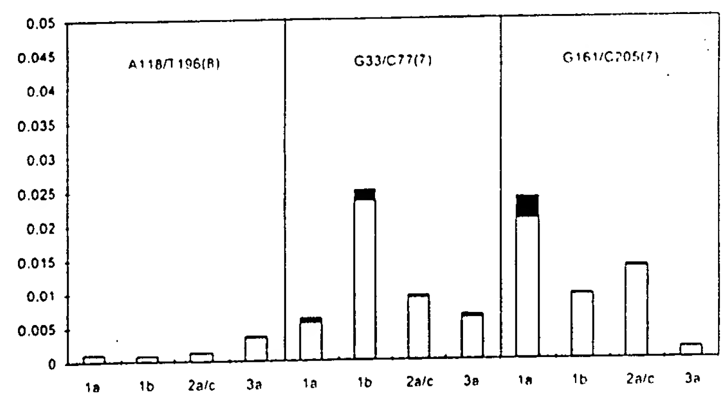


FIGURE 44B



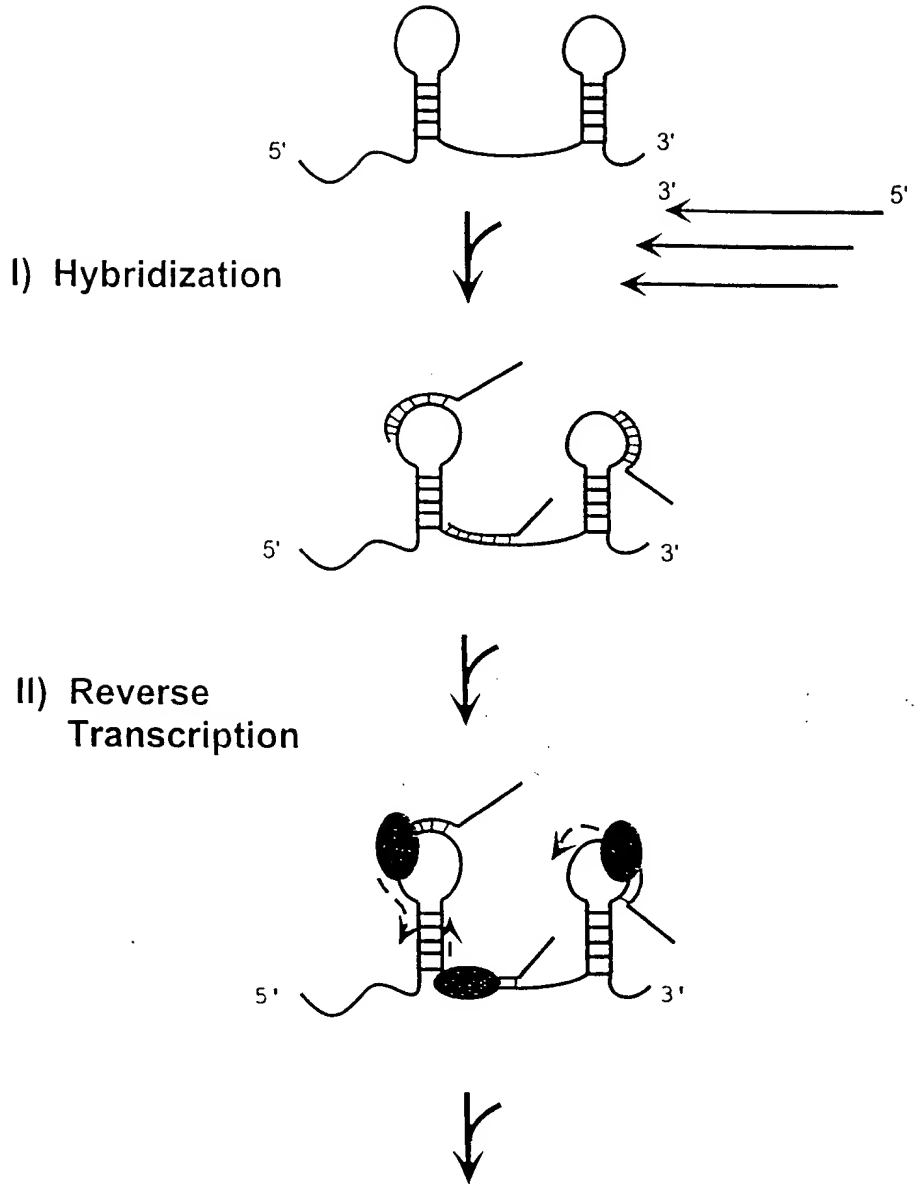
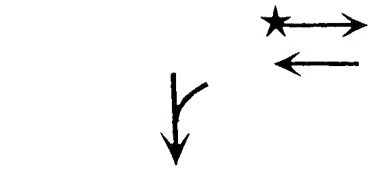
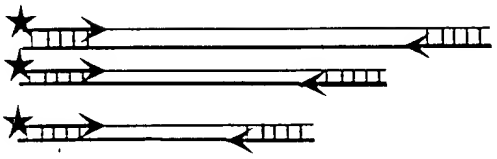


FIGURE 45A



III) PCR



IV) PAGE with
Sequencing Ladder

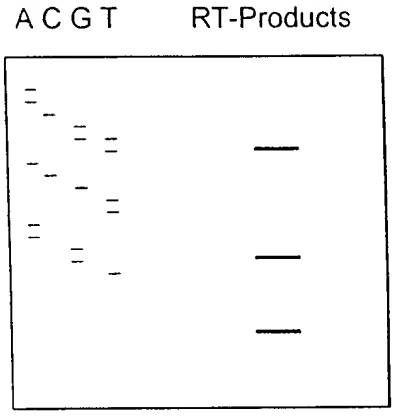
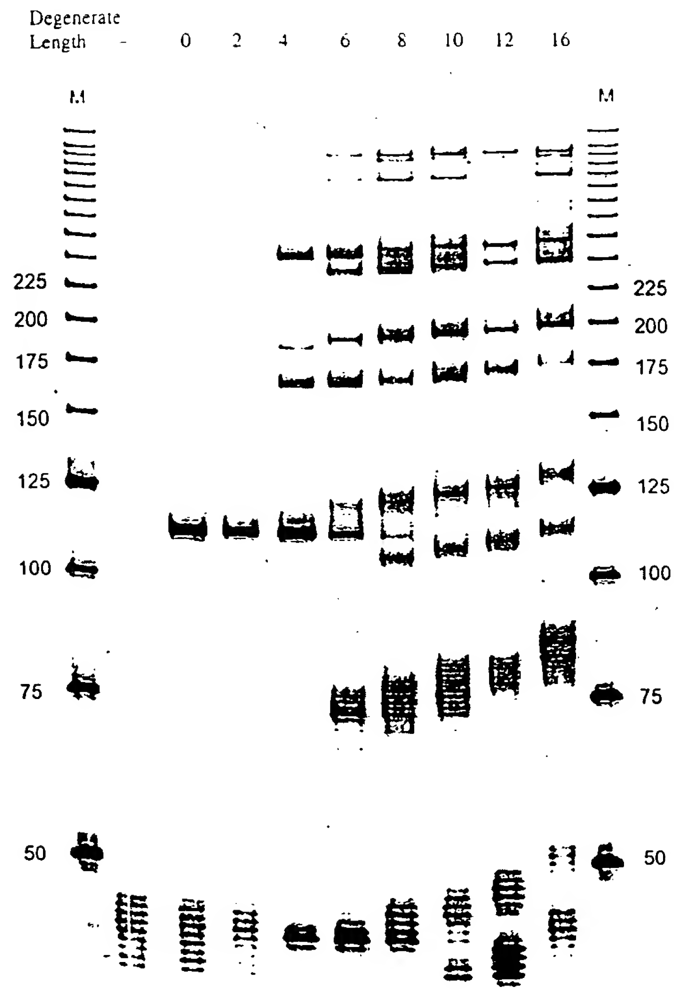


FIGURE 45B

FIGURE 46



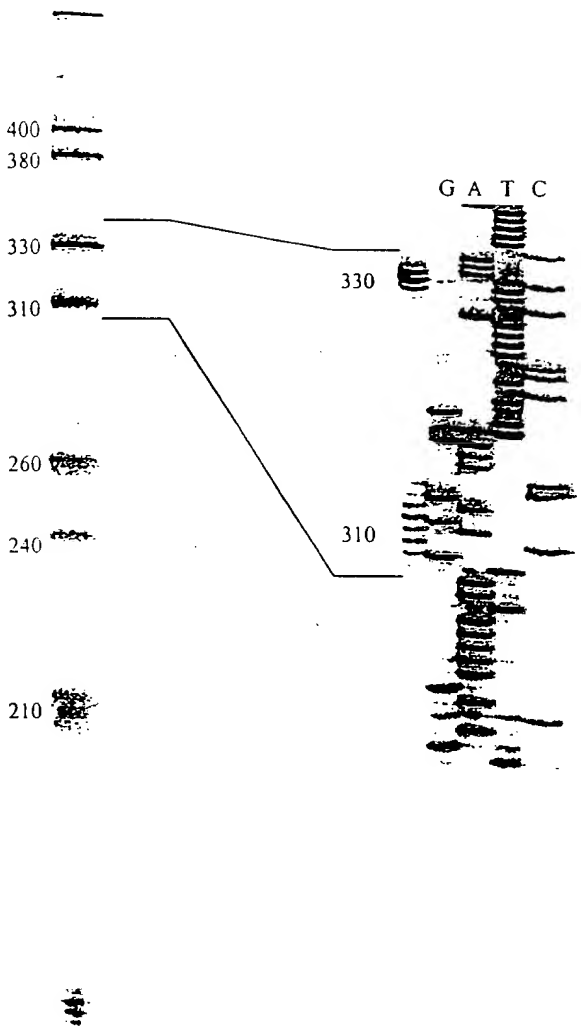


FIGURE 47

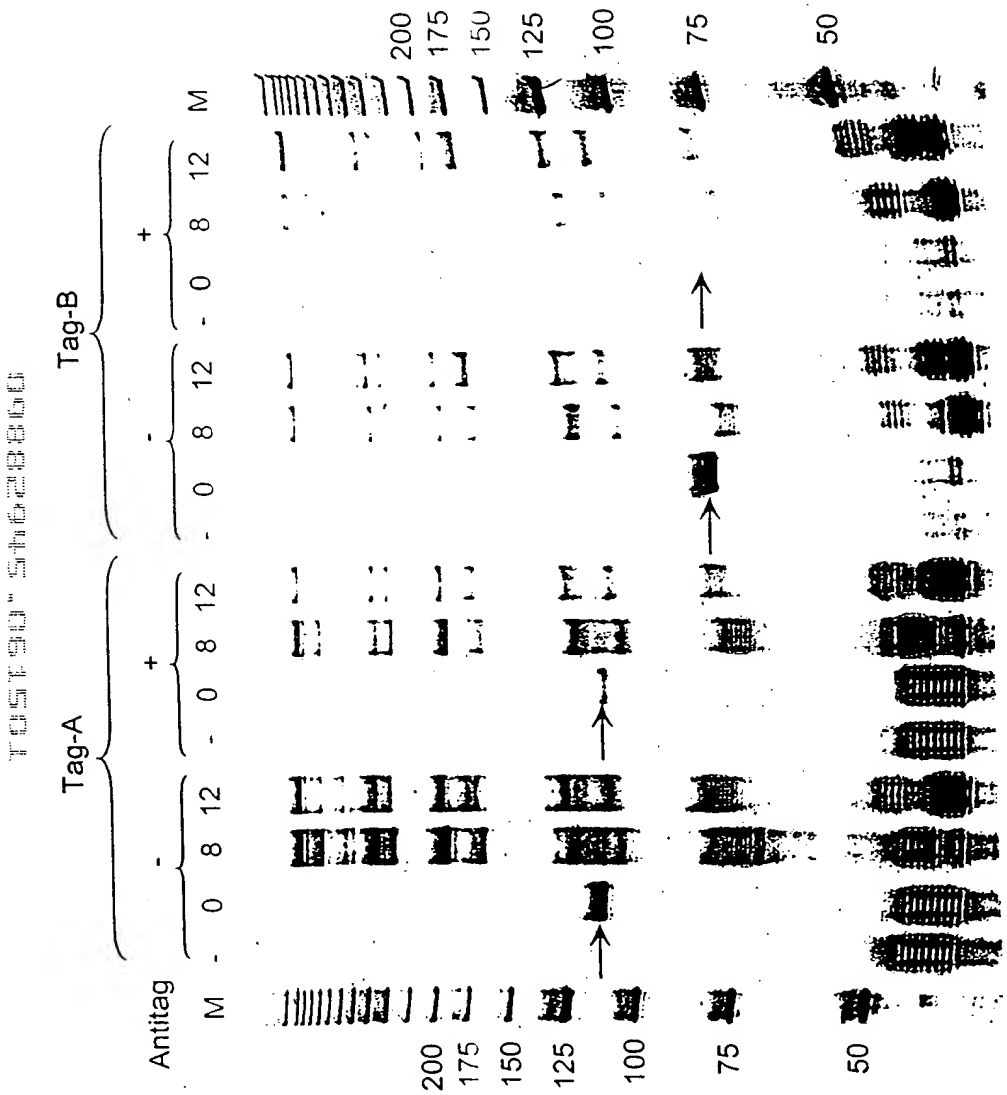


FIGURE 48

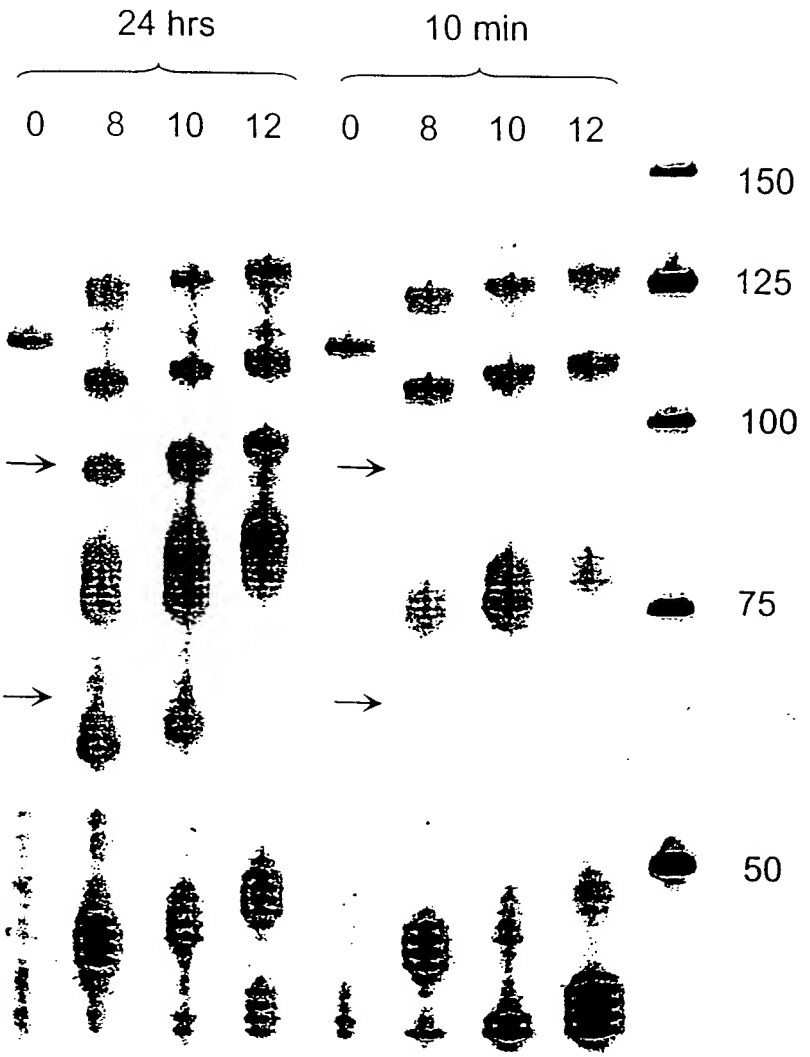
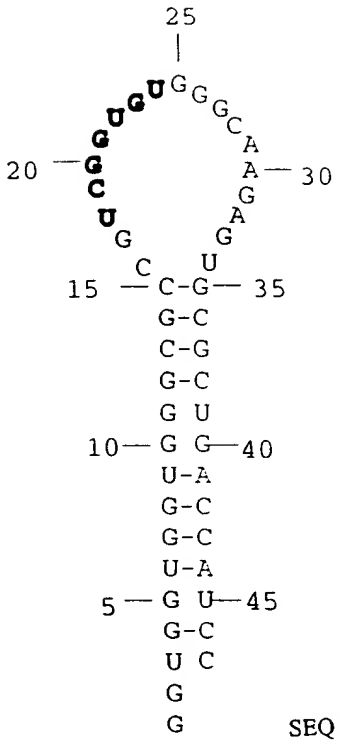


FIGURE 49



SEQ ID 142

FIGURE 50A

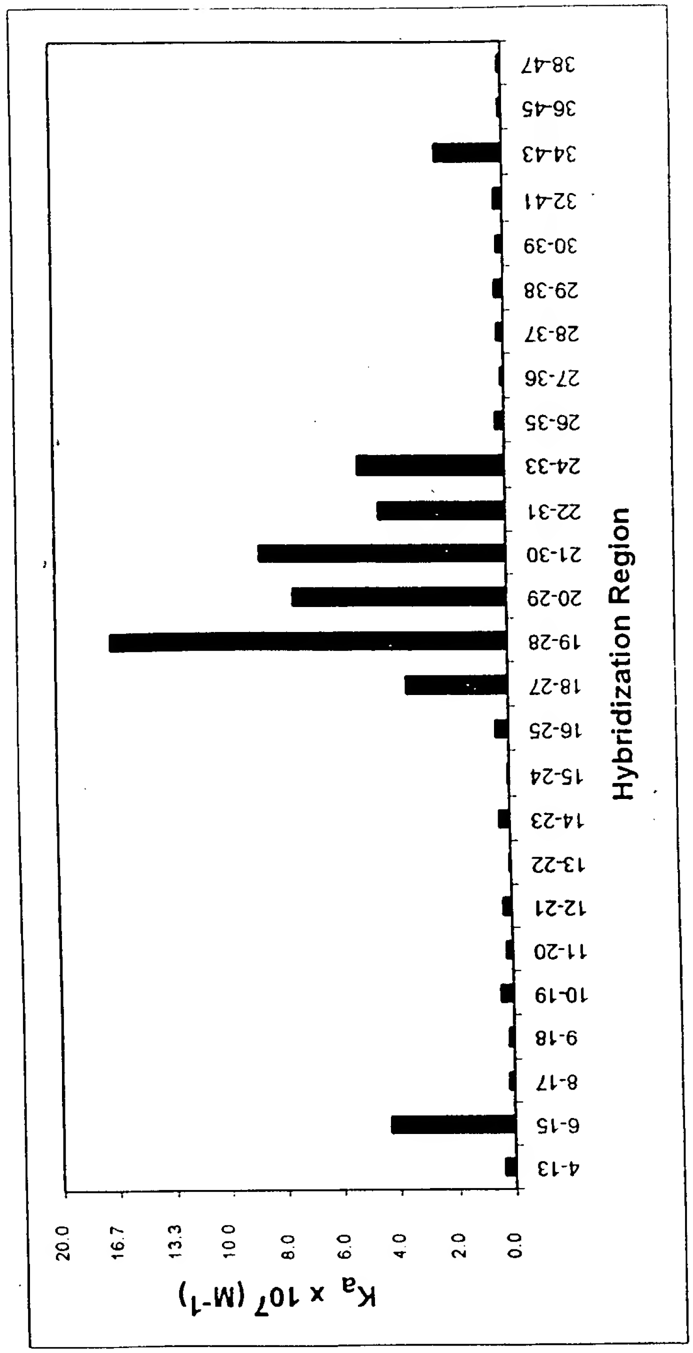


FIGURE 50B

FIGURE 51

				44-50	
1	ACACUUGCUU	UUGACACAAC	UGUGUUUACU	UGC**AAUCCCC**	CAAAACAGAC
	64-68			88-97	
51	AGA**AUGGU**GC	AUCUGUCCAG	UGAGGAG**AAG**	**UCUGCGGU**CA	CUGCCCUGUG
101	GGGCAAGGUG	AAUGUGGAAG	AAGUUGGUGG	UGAGGCCCUG	GGCAGGCUGC
151	UGGUUGUCUA	CCCAUGGACC	CAGAGGUUCU	UCGAGUCCUU	UGGGGACCUG

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FIGURE 52A

ISIS 1571(-) ISIS 3067(+)

1 GCGCCCCAGT CGACGCTGAG CTCCTCTGCT **ACTCAG**AGTT

ISIS 1570(+)

41 GCA**ACCTCAG** CCTCGCTATG **GCTCCCAGC**A GCCCCCGGCC

81 CGCGCT**GCCC G**CACTCCTGG TCCTGCTCGG GGCTCTGTTC

121 CCAGGACCTG GCAATGCCCA GACATCTGT**G TCCCC**CTCAA

161 AAGTCATCCT GCCCCGGGGA GGCTCCGTGC TGGTGACAT**G**

201 **CAGCA**CCTCC TGTGACC**AGC CCA**AGTTGTT GGGCAT**AGAG**

241 **ACCCC**GTTGC CTAAAAAGGA GTTGCTCCTG CCTGGGAACA

281 ACCGGAAGGT GTATGAACTG AGCAATGTGC AAGAAGATAG

ISIS 1934(-)

321 CCAACCAATG TGCTATTCAA ACTGCCCTGA TGGGCAGTCA

361 ACAGCTAAAA C**CTTCCTCA**C CG**TGTACTGG** ACTCCAGAAC

401 GGGTGGA**ACT GGCACCCCTC CCCTCTTGGC** AGCCAGTGGG

441 CAAGAACCTT ACCCTACGCT GCCAGGTGGA GGGTGGGG**CA**

481 **CCCCGGG**CCA ACCTCACCGT GGTGCTGCTC CGTGGGGAGA

FIGURE 52B

521 AGGAGCTGAA ACGGGAGCCA GCTGTGGGGG AGCCCGCTGA

as 610

561 GGTCACGACC ACGGTGCTGG TGAGGAGAGA TCAC**CATGGA**

601 GCCAATTTC**T** **CGTGCCGCA**C TGAACTGGAC CTGCGGCCCC

641 AAGGG**CTGGA** GCTGTTTGAG AA**CACCTCGG** **CCC**CCTACCA

681 GCTCCAGACC TTTGTCC**TGC** **CAG**CG**ACTCC** **CC**CACAACTT

721 GTCAGCCCCC GGGTCCTAGA GGTGGACACG CAGGGGACCG

761 TGGTCTGTTC CC**TGGACGGG** **C**TGTTCCCAG TCT**CGGA**GGC

801 CCAGGTCCAC CTGGCACTGG GGGACCAGAG GTTGAACCCC

841 ACAGTCACCT ATGGCAACGA CTCCTTCTCG GCCAAGGCCT

881 CAGTCAGTGT GACCGCAGAG GACGAGGGCA CCCAGCGGCT

921 GACGTGTGCA GTAATACTGG GGAA**CCAGAG** **CCAGGA**GACA

961 CTGCAGACA**G** **TGACCATC**TA CAGCTT**TCCG** **GCGC**CCAACG

1001 TGATTCTGAC GAAGCCAGAG GTCTCAGAAG GGACCGAGGT

FIGURE 52C

1041 GACAGTGAAG TG**TGAGGC**CC ACCCTAGAGC CAAGGTGACG

1081 CTGAATGGGG TTCCAGCCCA GCCACTGGGC CCGAGGGCCC

1121 AGCTCCTGCT GAAGGCCACC CCAGAGGACA **ACGGG**CGCAG

1161 CTTCTCCTGC TCTGCAACCC TGGAGGTGGC CGGCCAGCTT

as 1220 (+)

1201 **ATACACAAG**A ACCAGACCCG GGAGCTTCGT GTCCTGTA**TG**

1241 **GCCCCC**CGACT GGACGAGAGG GATTGTCCGG GAAACTGGAC

1281 GTGGCCAGAA AATT**CCCAGC A**GACTCCAAT GTGCCAGGCT

1321 TGGGGGAACC CATTGCCCGA GCTCAAGTGT CTAAAGGATG

ISIS 1547 (+)

1361 GCACTTTCCC ACTGCCCA**TC GG**GGAATCAG TGACTGTCAC

1401 TCGAGATCT**T GAGG**GCACCT ACCTCTGTCG GGCCAGGAGC

1441 ACTCAAGGGG AGGTCACCCG CGAGGTGACC GTGAATGTGC

1481 TCTCCCCCCG GTATGAGATT GTCATCATCA CTGTGGTAGC

1521 AGCCGCAGTC **ATAATG**GGCA CT**GCAGGCCT CAGCAC**GTAC

FIGURE 52D

1561 CTCTATAACC GCCAGCGGAA GATCAAGAAA TACAGACTAC

as 1630 as 1630h(+++)

1601 AACAGGCCCA AAAAGGGACC CCCATGAAAC CGAACACACA

ISIS 1938 (+)

1641 AGCCACGCCT CCCTGAACCT ATCCCGGGAC AGGGCCTCTT

1681 CCTCGGCCTT CCCATATTGG TGGCAGTGGT GCCACACTGA

1721 ACAGAGTGGA AGACATATGC CATGCAGCTA CACCTACCGG

1761 CCCTGGGACG CCGGAGGACA GGGCATTGTC CTCAGTCAGA

1801 TACAACAGCA TTTGGGGCCA TGGTACCTGC ACACCTAAAA

1841 CACTAGGCCA CGCATCTGAT CTGTAGTCAC ATGACTAAGC

1881 CAAGAGGAAG GAGCAAGACT CAAGACATGA TTGATGGATG

ISIS 1939 (+)

1921 TTAAAGTCTA GCCTGATGAG AGGGGAAGTG GTGGGGGAGA

1961 CATAGCCCCA CCATGAGGAC ATACAACTGG GAAATACTGA

2001 AACTTGCTGC CTATTGGGTA TGCTGAGGCC CACAGACTTA

2041 CAGAAGAAGT GGCCCTCCAT AGACATGTGT AGCATCAAAA

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ISIS 2302 (+)
2081 CA**CAAAGGCC** **C**ACACTTCCT GACGGATGCC AGCTTGGGCA

2121 CTGCTGTC**TA** **CTGACC**CCAA CCCTTGATGA TATGTATTTA

ISIS 1572
2161 TTCATTTGTT ATT**TTACCA**G CTATTTATTG AGTGTCTTTT

2201 ATGTAGGCTA AATGAACATA GGTCTCTGGC CTCACGGAGC

2241 TCCCAGTCCA TGTCACATTC AAGGTCACCA GGTACAGTTG

2281 TACAGGTTGT ACACTGCAGG AGAGTGCCTG GCAAAAAGAT

2321 CA**AATG**GGGC TGGGACTTCT CATTGGCCAA CCTGCCTTTC

2361 CCCAGAAGGA GTGATTTTTC TA**TCGG**CACA AAAGCACTAT

2401 ATGGACTGGT AATGGTTCAC AGGTTCAGAG ATTACCC**AGT**

2441 **GAGG**CCTTAT TCCTCC**CTTC** **CC**CCCAAAAC TGACACCTTT

2481 GT**TAGCCACC** **TCCCCA**CCCA CATACATTTC TGCCAGTGTT

2521 CACAATGACA CTCAGCGGTC ATGTCTGGAC ATGAGTGCCC

2561 AGGGA**ATATG** **CCCAA**GCTAT GCCTTGTCCT CTTGTCCTGT

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URE 52F

2601 TTGCATTTCA CTGGGAGCTT GCACTATTGC AGCTCCAGTT

2641 TCCTGCAGTG ATCAGGGTCC TGCAAGCAGT GGGGAAGGGG

2681 GCCAAGGTAT TGGAGGACTC CCTCCCAGCT TTGGAAGGGT

2721 CATCCGCGTG TGTGTGTGTG TGTATGTGTA GACAAGCTCT

2761 CGCTCTGTCA CCCAGGCTGG AGTGCAGTGG TGCAATCATG

2801 GTTCACTGCA GTCTTGACCT TTTGGGCTCA AGTGATCCTC

2841 CCACCTCAGC CTCCTGAGTA GCTGGGACCA TAGGCTCACA

2881 ACACCACACC T

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FIGURE 53A

1 CACAUUGUUC UGAUCAUCUG AAGAUCAGCU AUUAGAAGAG

site 80

41 AAAGAUCAGU UAAGUCCUUU GGACCUGAUC AGCUUGA**UAC**

site 120

81 **AA**GAACUACU GAUUUCAACU UCUUUGG**CUU** **AAU**UCUCUCG

121 GAAACGAUGA AAUAUACAAG UUAUAUCUUG GCUUUUCAGC

161 UCUGCAUCGU UUUGGGUUCU CUUGGCUGUU ACUGCCAGGA

site 210

201 CCCAUAUGUA **CAAGAAGC**AG AAAACCUUAA GAAAUAUUUU

site 240 site 260

241 **AAUGCAG**GUC AUUCAGAUG**U AGC**GGAUAAU GGAACUCUUU

281 UCUUAGGCAU UUUGAAGAAU UGGAAAGAGG AGAGUGACAG

site 330

321 AAAAAUAAUG **CAGA**GCCAAA UUGUCUCCUU UUACUUCAAA

site 380 site 400

361 CUUUUUAAAA ACUUUAAAGA **UGACCAGA**GC AUC**CAAAAGA**

401 GUGUGGAGAC CAUCAAGGAA GACAUGAAUG UCAAGUUUUU

441 CAAUAGCAAC AAAAAGAAAC GAGAUGACUU CGAAAAGCUG

FIG 53B

481 ACUAAUUAUU CGGUAACUGA CUUGAAUGUC CAACGCAAAG

site 560

521 CAAUACAUGA ACUCAUCCAA GUGAUGGCUG AACUGU**CGCC**

site 570

561 **AG**CAGCUAAA **ACAGGGAAGC GAAAAAG**GAG UCAGAUGCUG

601 UUUCGAGGUC GAAGAGCAUC CCAGUAAUGG UUGUCCUGCC

641 UACAAUAUUU GAAUUUUAAA UCUAAAUCUA UUUAUUAAUA

681 UUUAACAUUA UUUAUAUGGG GAAUAUAUUU UUAGACUCAU

721 CAAUCAAAUA AGUAUUUAUA AUAGCAACUU UUGUGUAAUG

761 AAAAUGAAUA UCUAUUAAUA UAUGUAUUAU UUAUAAUUCC

801 UAUAUCCUGU GACUGUCUCA CUUAAUCCUU UGUUUUCUGA

site 850 site 860 site 880

841 CUAAUUAG**GC AA**GGCUAUGU GAUU**ACAAG**G CU**UUAUCUCA**

site 890 site 910

881 **GGG**GCCAACU A**GGCAG**CCAA CCUAAG**CAAG AUCCCAUG**GG

921 UUGUGUGUUU AUUUCACUUG AUGAUACAAU GAACACUUAU

961 AAGUGAAGUG AUACUAUCCA GUUACUA

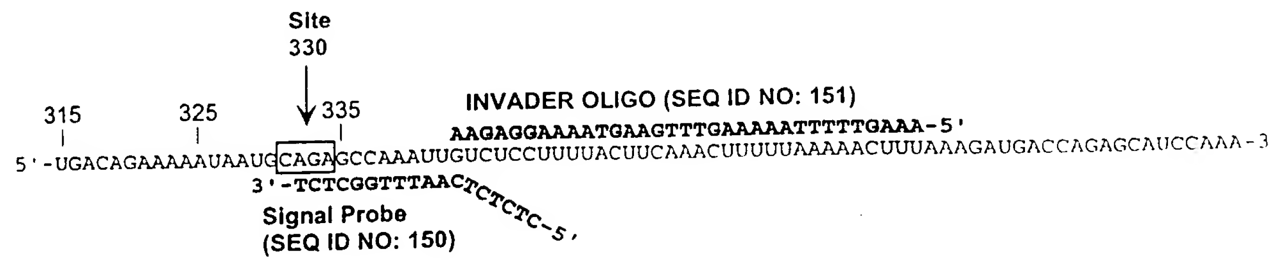

FIGURE 54A

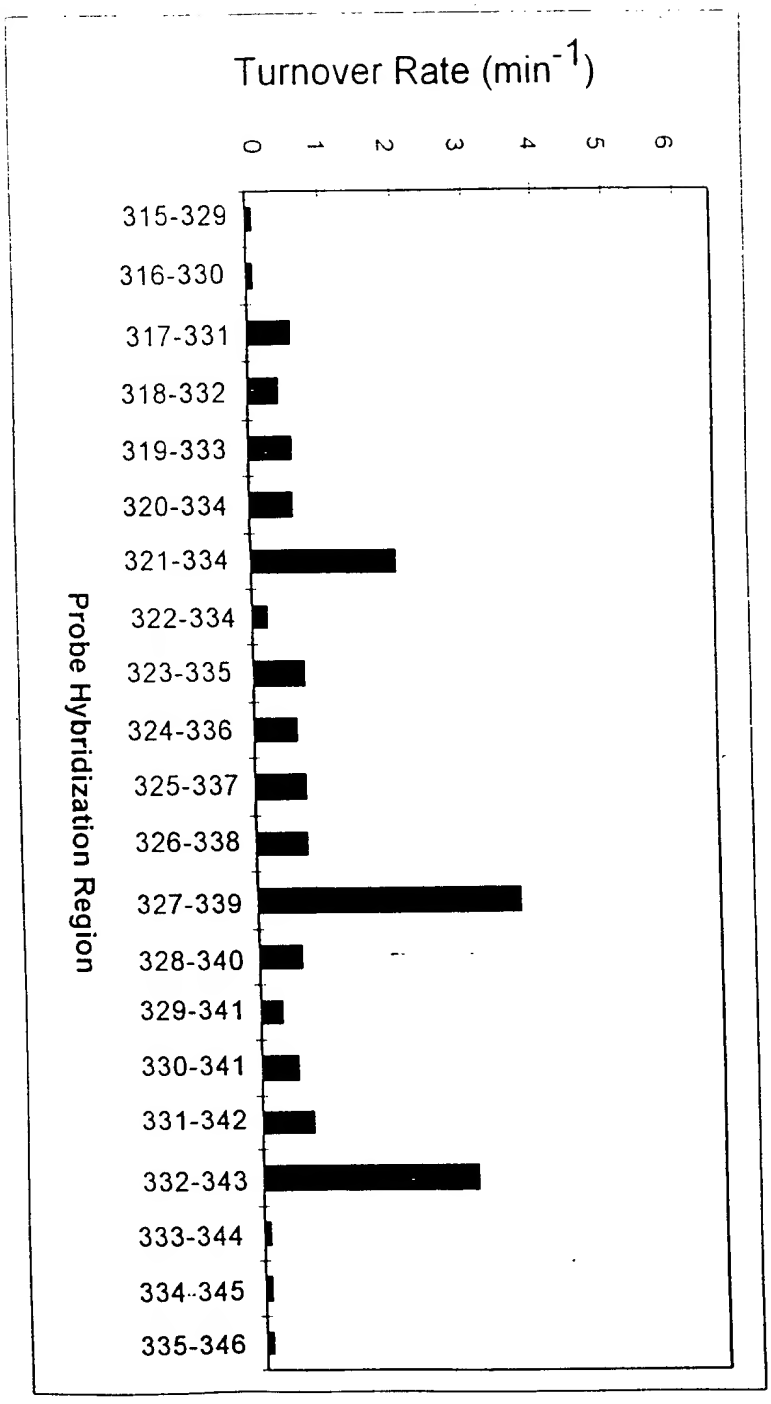

FIGURE 54B

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FIGURE 55A

SEQ ID NO:158

```
     Primer 1
460  GGUCUCUCUG GUUAGACCAG AUCUGAGCCU GGGAGCUCUC UGGCUAACUA
510  GGGAACCCAC UGCUUAAGCC UCAAUAAAGC UUGCCUUGAG UGCUUCAAGU
560  AGUGUGUGCC CGUCUGUUGU GUGACUCUGG UAACUAGAGA UCCCUCAGAC
                                      Primer 2
610  CCUUUUAGUC AGUGUGGAAA AUCUCUAGCA GUGGCGCCCG AACAGGGACC
660  UGAAAGCGAA AGGGAAACCA GAGGAGCUCU CUCGACGCAG GACUCGGCUU
710  GCUGAAGCGC GCACGGCAAG AGGCGAGGGG CGGCGACUGG UGAGUACGCC
760  AAAAAUUUUG ACUAGCGGAG GCUAGAAGGA GAGAGAUGGG UGCGAGAGCG
                                      Primer 3
810  UCAGUAUUAA GCGGGGGAGA AUUAGAUCGA UGGGAAAAAA UUCGGUUAAG
860  GCCAGGGGGA AAGAAAAAAU AUAAAUUAAA ACAUAUAGUA UGGGCAAGCA
910  GGGAGCUAGA ACGAUUCGCA GUUAAUCCUG GCCUGUUAGA AACAUCAGAA
960  GGCUGUAGAC AAAUACUGGG ACAGCUACAA CCAUCCCUUC AGACAGGAUC
                                      Primer 4
1010 AGAAGAACUU AGAUCAUUAU AUAAUACAGU AGCAACCCUC UAUUGUGUGC
1060 AUCAAAGGAU AGAGAUAAAA GACACCAAGG AAGCUUUAGA CAAGAUAGAG
```

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FIGURE 55B

1110 **GAA**GAGCAAA ACAAAAGUAA GAAAAAAGCA CAGCAAGCAG CAGCUGACA**C**

1160 **AGG**ACACAGC AAUCAGGUCA GCCAAAAUUA CCCUAUAGUG CAGAACAUCC

Primer 5

1210 **AGGGGCA**AAU GGUACAUCAG GCCAUAUCAC CUAGAACUUU AAAUGCAUGG

1260 GUAAAAGUAG UAGAAGAGAA GGCUUUCAGC CCAGAAGUGA UACCCAUGUU

1310 UUCAGCAUUA UCAGAA**GGAG CCA**CCCCACA AGAUUUAAAC ACCAUGCUAA

1360 ACACAGUGGG GGGACAUCA**A GCA**GCCAUGC AAAUGUUAAA AGAGACCAUC

Primer 6

1410 A**AUGA**GGAAG CUGCAGAAUG GGAUAGAGUG CAUCCAGUGC AUGCAGGGCC

1460 UAUUGCA**CCA** GGCCAGAUGA GAGA**ACCAAG GG**GAAGUGAC AUAGCAGGAA

1510 CUACUAGUAC CCUUCAGGAA CAAAUAGGAU GGAUGACAAA UAAUCCACCU

1560 AUCCCAGUAG GAGAAAUUUA UAAAAGAUGG AUAAUCCUGG GAUUAAAUAA

Primer 7

1610 AAUAGUAAGA AUGUAUAGCC CUACCAGCAU UCUGGACAUA AGACAAGGAC

1660 CAAAGGAACC CUUUAGAGAC UAUGUAGACC GGUUCUAUAA AACUCUAAGA

1710 **GCCGA**GCAAG CUUC**ACAGG**A GGUAAAAAAU **UGGA**UGACAG AAACCUUGUU

FIGURE 55C

1760 GGUCCAAAAU GCGAACCCAG AUUGUAAGAC UAUUUUAAAA GCAUU**GGGAC**

Primer 8

1810 **CAGC**GGCUAC ACUAGAAGAA AUGAUGACAG CAUGUC**AGGG** AGU**AGG**AGGA

1860 CCCGGCCAUA AGGCAAGAGU UUUGGCUGAA GCAAUGAGCC AAGUAACAAA

1910 UUCAGCUACC AUAAUGAUG**C AGAGA**GGCAA UUUUAGGAAC CAAAGAAAGA

1960 UUGUUAAGUG UUUCAAUUGU GGCAAAGA**AG G**GCACACAGC CAGAAAUUGC

2010 AGGGCCCCUA GGAAAAAGGG CUGUUGGAAA UGUGGAAAGG AAGGACACCA

2060 AAUGAAAGAU UGUACUGAGA G

FIGURE 56

FIGURE 57

```
(SEQ ID NO:188)              CGTATTCCGTTCTCAAAACCGACTTGCT-5'  13
(SEQ ID NO:187)             AGGTATTCCGTTCTCAAAACCGACT         12
(SEQ ID NO:186)            ACGGTATTCCGTTCTCAAAACCGAC          10=11
(SEQ ID NO:185)           CCCGGTATTCCGTTCTCAAAACCGA           9
(SEQ ID NO:184)          CGCCGGTATTCCGTTCTCAAAACCG            8
(SEQ ID NO:183)         CGGCCGGTATTCCGTTCTCAAAACC             7
(SEQ ID NO:182)        AGGGCCGGTATTCCGTTCTCAAAAC              6
(SEQ ID NO:181)       ATGGGCCGGTATTCCGTTCTCAAAA               5
(SEQ ID NO:180)      ACTGGGCCGGTATTCCGTTCTCAAA                4
(SEQ ID NO:179)     ACCTGGGCCGGTATTCCGTTCTCAA                 3
(SEQ ID NO:178)    ATCCTGGGCCGGTATTCCGTTCTCA                  2
(SEQ ID NO:177)   ACTCCTGGGCCGGTATTCCGTTCTC                   1
 5'-CAUGUCAGGGAGUAGGAGGACCCGGCCAUAAGGCAAGAGUUUUGGCUGAAGCAAUGAG-3'
     1 CAGTCCCTCATC            (SEQ ID NO:164)       (SEQ ID NO:158)
     2  AGTCCCTCATCC           (SEQ ID NO:165)
     3   GTCCCTCATCCT          (SEQ ID NO:166)
     4    TCCCTCATCCTC         (SEQ ID NO:167)
     5     CCCTCATCCTCC        (SEQ ID NO:168)
     6      CCTCATCCTCCT       (SEQ ID NO:169)
     7       CTCATCCTCCTG      (SEQ ID NO:170)
     8        TCATCCTCCTGG     (SEQ ID NO:171)
     9         CATCCTCCTGGG    (SEQ ID NO:172)
    10          ATCCTCCTGGGC   (SEQ ID NO:173)
    11           TCCTCCTGGGC   (SEQ ID NO:174)
    12            CCTCCTGGGCC  (SEQ ID NO:175)
    13             CTCCTGGGCCGAAAA-FL-5'  (SEQ ID NO:176)
```

FIGURE 58

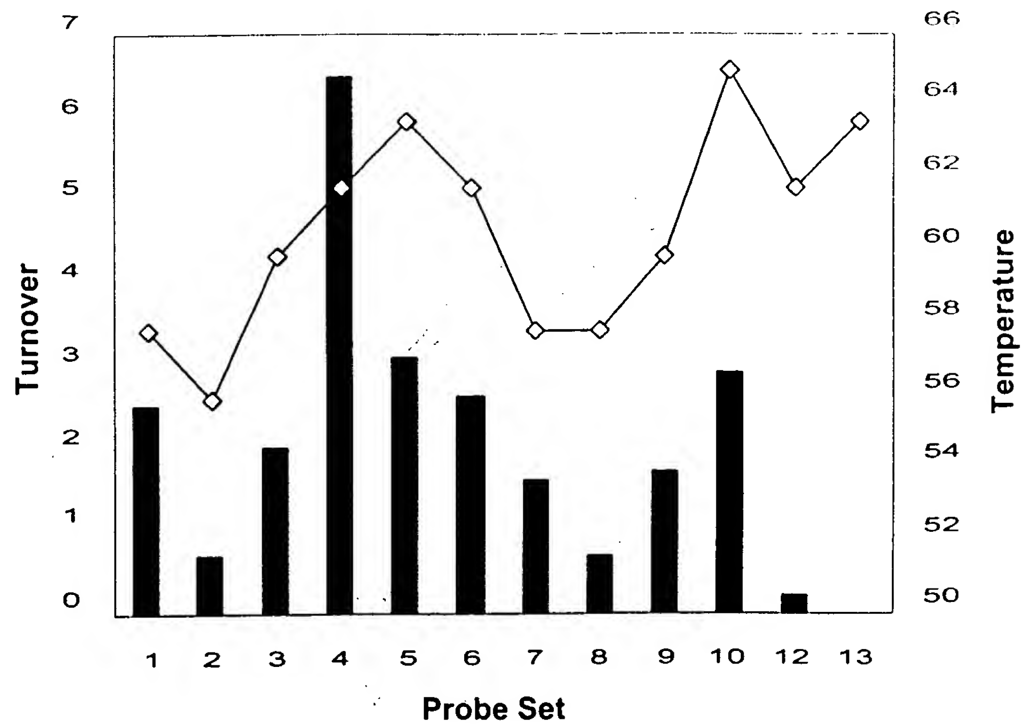


FIGURE 59

```
                         (SEQ ID NO:180)
                     ACTGGGCCGGTATTCCGTTCTCAAA
5'-CAUGUCAGGGAGUAGGAGGACCCGGCCAUAAGGCAAGAGUUUUGGCUGAAGCAAUGAG-3'
                                                     (SEQ ID NO:158)
      TCCCTCATCCTCCTCCGCACTGCC-5'
  (SEQ ID NO:189)

                                          5'-AGGGAGTAGGAGGAGG-3'
                                            (SEQ ID NO:190)

                        E     Q    (SEQ ID NO:193)
(SEQ ID NO:191)          CAAC GCTTCCTCCG-3'
    5'-CCGTCACGCCTCC
    3'-TGGCAGTGCGGAGGTTGACGAAGAAGGC-5'
    (SEQ ID NO:192)
```

FIGURE 60

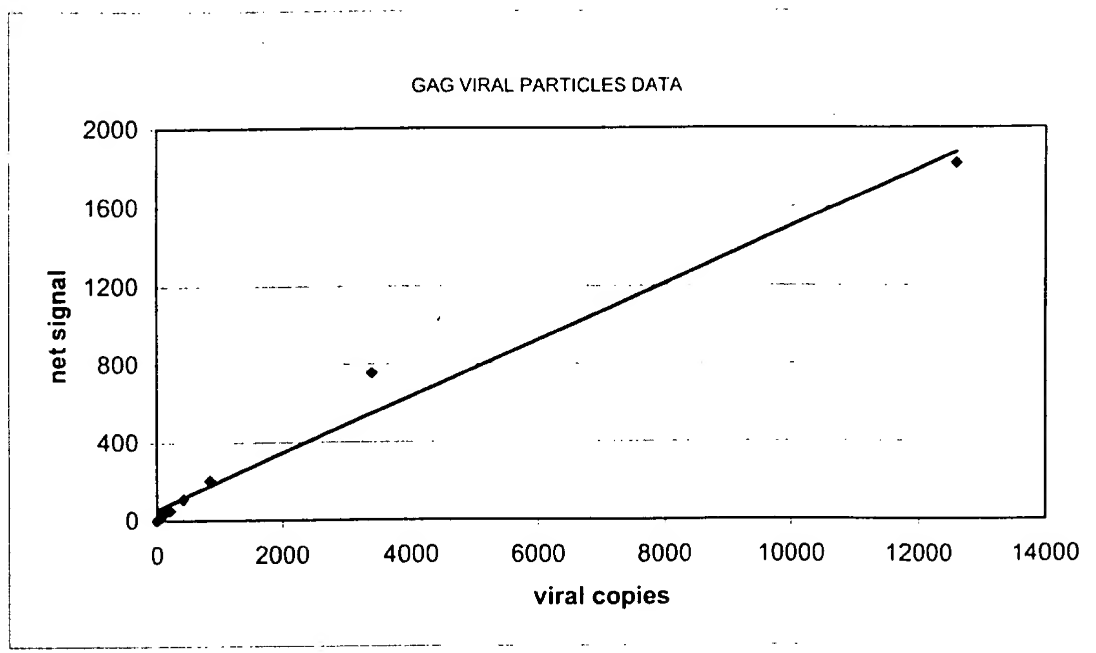


FIGURE 61A

SEQ ID NO:159

primer 1
3300 AGCUGGACUG UCAAUGACAU ACAGAA**GUUA GUGG**GGAAAU UG**AAUUG**GGC

3350 AAGUCAGAUU U**ACCCA**GGGA UU**AAGUAA**G GCAAUUAUGU AAACUCCUUA

3400 GAGGAACCAA AGCACUAACA GAAGUAAUAC CACUAACAGA AGAAGCAGAG

3450 CUAGAA**CUG**G CAGAAAACAG AGAGAUUCUA AAAGAACCAG UACAUGGAGU

primer 2
3500 GUAUUAUGAC **CCA**UCAAAAG ACUUAAUAGC AGAAAU**ACAG AAGCAGGGGC**

3550 **A**AGGCCAAUG GACAUAUCAA AUUUAU**CAAG** AGCCAUUUAA AAAUCUGAAA

3600 ACAGGAAAAU AUGCAAGAAU **GAGG**GGUGCC CACACUAAUG AUGUAAAACA

3650 AUUAACA**GAG G**CAGUGCAAA AAAUAACCAC AGAAAGCAUA GUAAUAUGGG

primer 3
3700 GAAAGACUCC UAAAUUU**AA CU**GCCCAUAC AAAAGGAAAC AUGGGAAACA

3750 UGGUGGACAG AGUAUUGGCA AGCCACCUGG AUUCCUGAGU GGGAGUUUGU

3800 UAAUACCCCU CCCUUAGUGA AAUUA**UG**GUA CCAGUUAGAG AAAGAACCCA

3850 UAGU**AGG**AGC AGAAACCUUC UAUGUAGAU**G GG**GCAGCUAA **CAGG**GAGACU

primer 4
3900 AAAUUAGGAA AAGCAGGAUA UGUUACUAAU **AGAG**GAAGAC AAAAAGUUGU

FIGURE 61B

3950 CACCCUAACU GACACAACAA AUCAGAAGAC UGAGUUACAA GCAAUUUAUC

4000 UAGCUUUGCA GGAUU**CGG**GA UUAGAAGUAA ACAUAGUAAC AGACUCACAA

4050 UAUGCAUUAG GAAUCAUUCA **AGCACAA**CCA GAUCAAAGUG AAUCAGAGUU

primer 5
4100 AGUCAAUCAA AUAAUA**GAG**C AGUUAAUAAA AAAGGAAAAG GUCUAUC**UGG**

4150 **C**AUGGGUACC AGCACACAAA GGA**AUUGGAG** GAAAUGAACA AGUAGAUAAA

4200 UUAGUCAGUG CUGGAAUCAG GAAAGUACUA UUUUUAGAUG GAAUAGA**UAA**

4250 **GGC**CCAAGAU GAACAUGAGA AAUAUCACAG UAAUU**GGAG**A GCAAUGGCUA

primer 6
4300 GUGAUUUUAA CCUGCCACCU GUAGUAGCAA AAGAAAUA**GU AGC**CAGCUGU

4350 GAUAAAUGUC AGCUAAAAGG AGAAGCCAUG CAUGGACAAG UAGACUGUAG

4400 UCCAGGAAUA UGGCAACUAG AUUGUACACA UUUAGAAGGA AAAGUUAUCC

4450 UGGUAGCAGU UCAUGUAGCC AGUGGAUAUA UA**GAA**GCAGA AGUUAUUCCA

primer 7
4500 GC**AGAAA**CAG **GGCAG**GAAAC AGCAUAUUUU CUUUUAAAAU **UAGCAGGAAG**

4550 **AUGG**CCAGUA AAAACAAUAC AUA**CUGACAA UGG**CAGCAAU UUC**ACCGG**UG

4600 CUACGGUUAG GGCCGCCUGU UGGUGGGCGG GAAUCA**AGCA G**GAAUUUGGA

FIGURE 61C

4650 AUUCCCUACA AUCCCCAAAG UC**AAGGA**GUA GUAGAAUCUA UGAAUAAAGA

primer 8
4700 AUUAAAGAAA AUUAUA**GGAC** **AGG**UAAGAGA **UCAGG**CUGAA CAUCUUAAGA

4750 CAGCAGUACA AAUGGCAGUA UUCAUCCACA AUUUUAAAAG AAA**AGGG**GGG

4800 AUUGGGGGGU AC**AGUGCAGG** **GGA**AAGAAUA GUAGACAUAA UAGCAACAGA

4850 CAUACAAACU AAAGAAUUAC AAAAACAAAU UACAAAAAUU CAAAAUUUUC

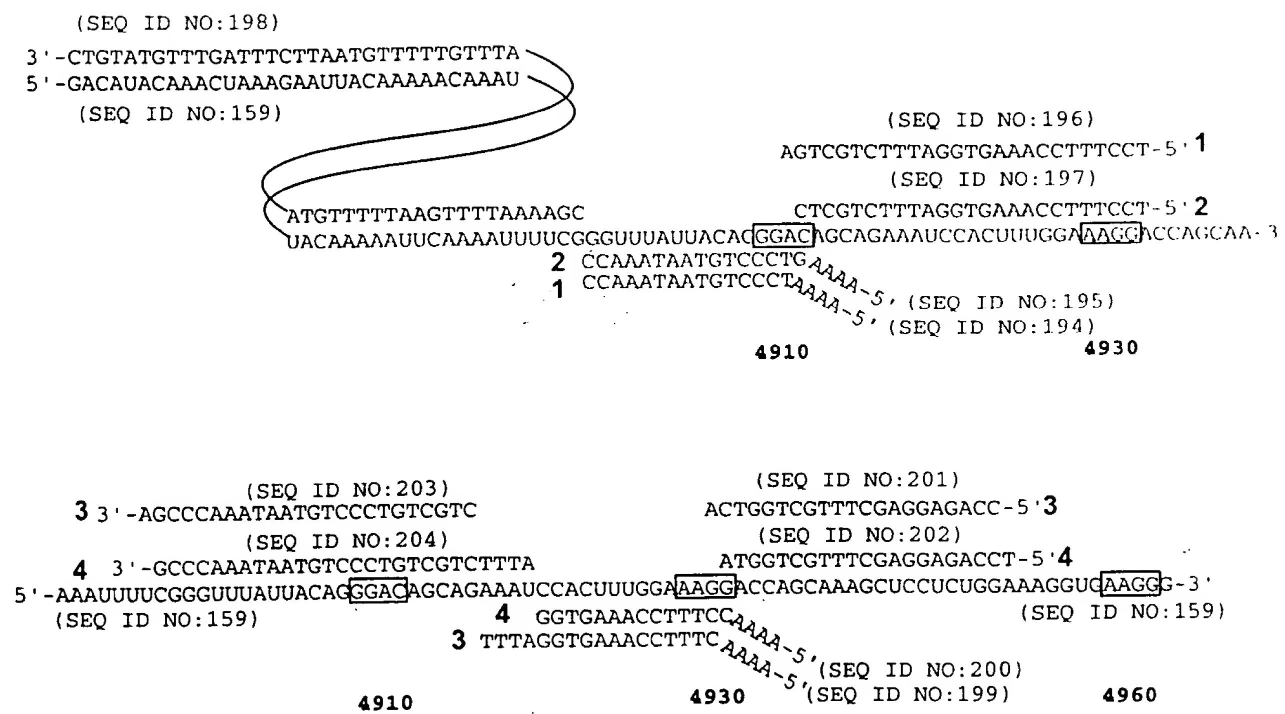
primer 9
4900 GGGUUUAUUA CAG**GGAC**AGC AGAAAUCCAC UUUGGA**AAGG** ACCAGCAAAG

4950 CUCCUCUGGA AAGGUG**AAGG** GGCAGUAGUA AUACAAGAUA AUAGUGACAU

5000 AAAA**GUAGU**G CCAAGAAGAA AAGCAAAGAU CAUUAGGGAU UAUGGAAAAC

5050 AGAUGGCAGG UGAUGAUUGU G

FIGURE 62



96/123

FIGURE 63

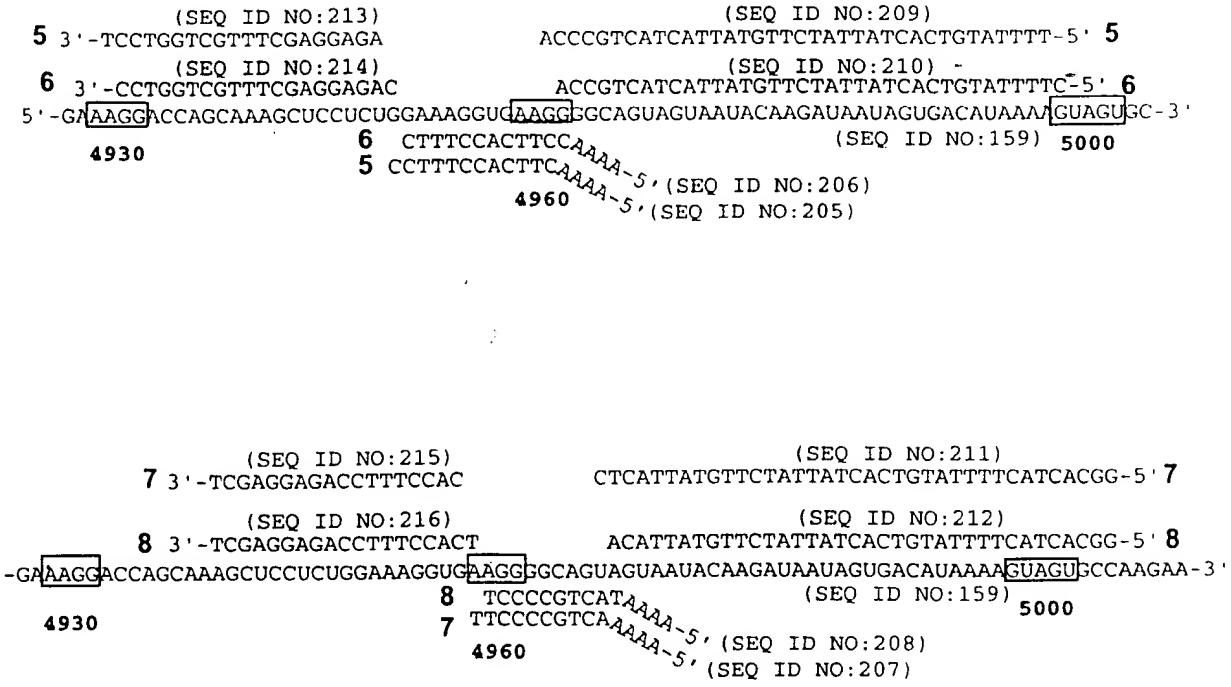


FIGURE 64

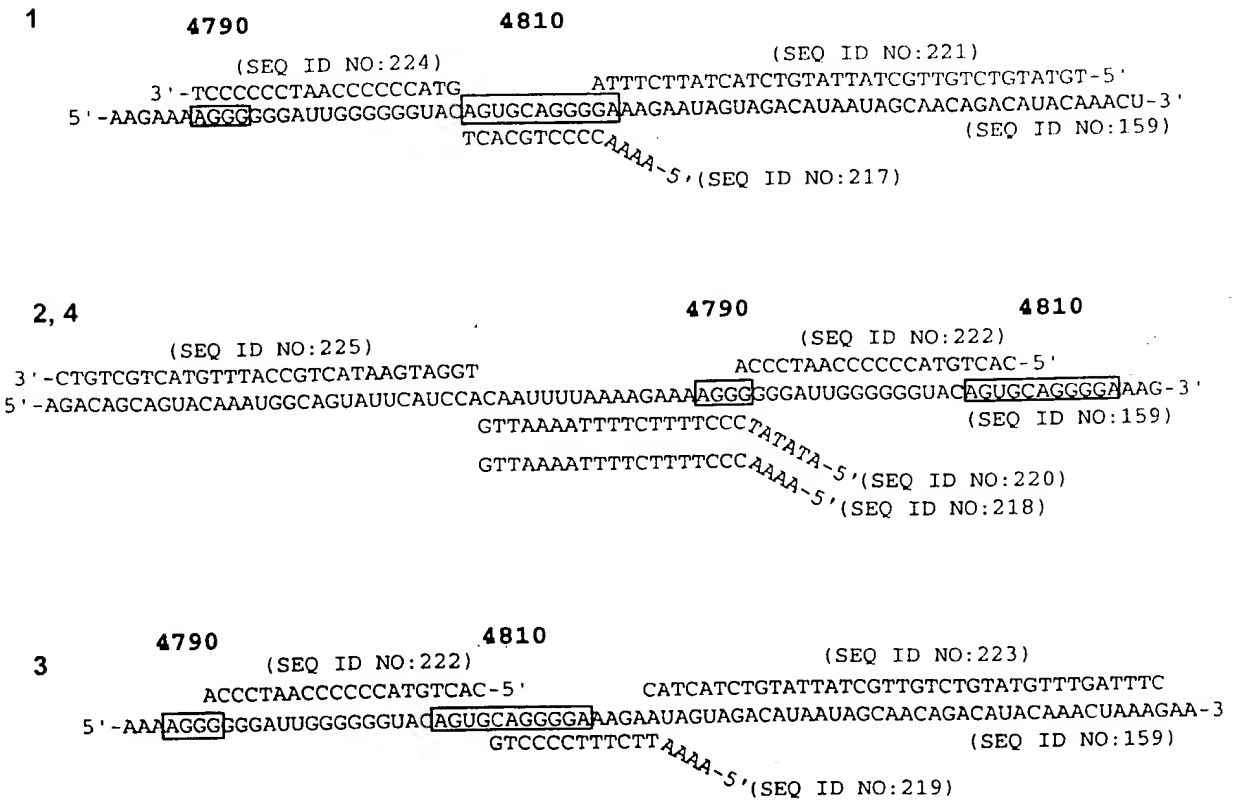


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FIGURE 65

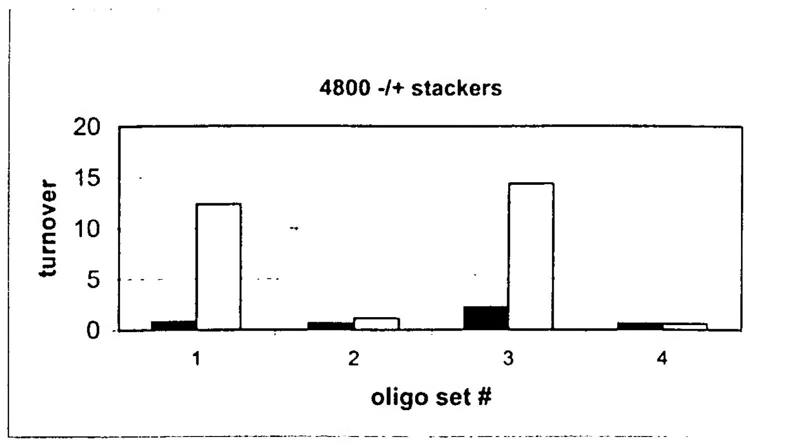

FIGURE 66

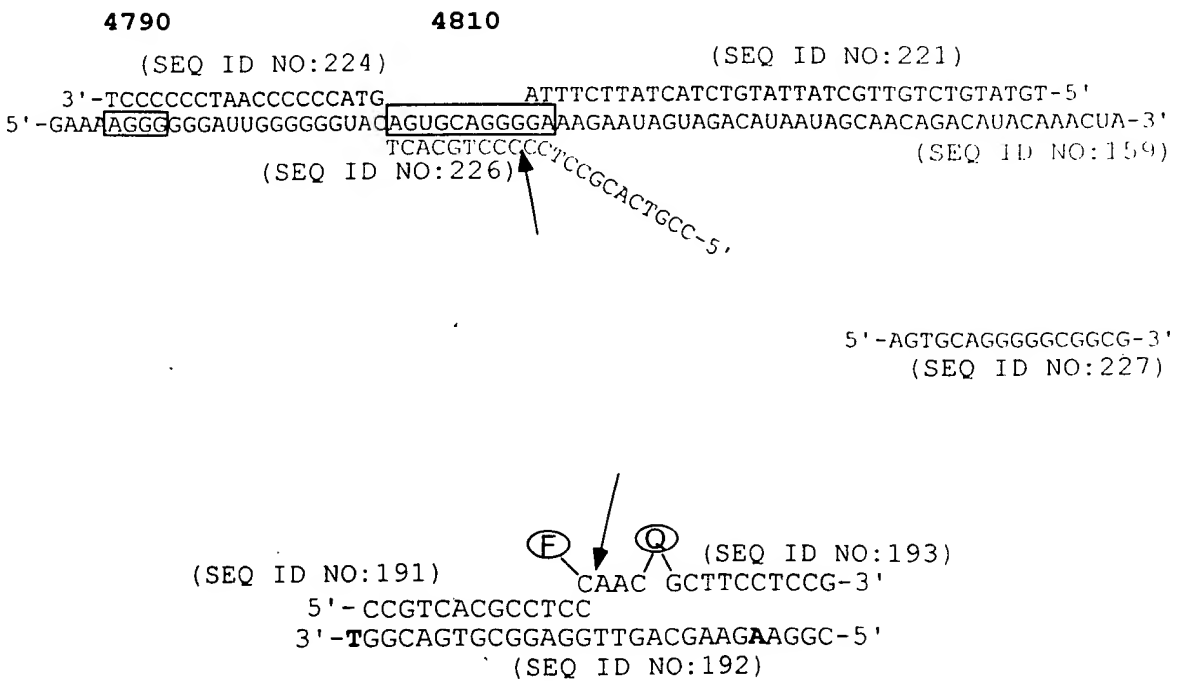

FIGURE 67

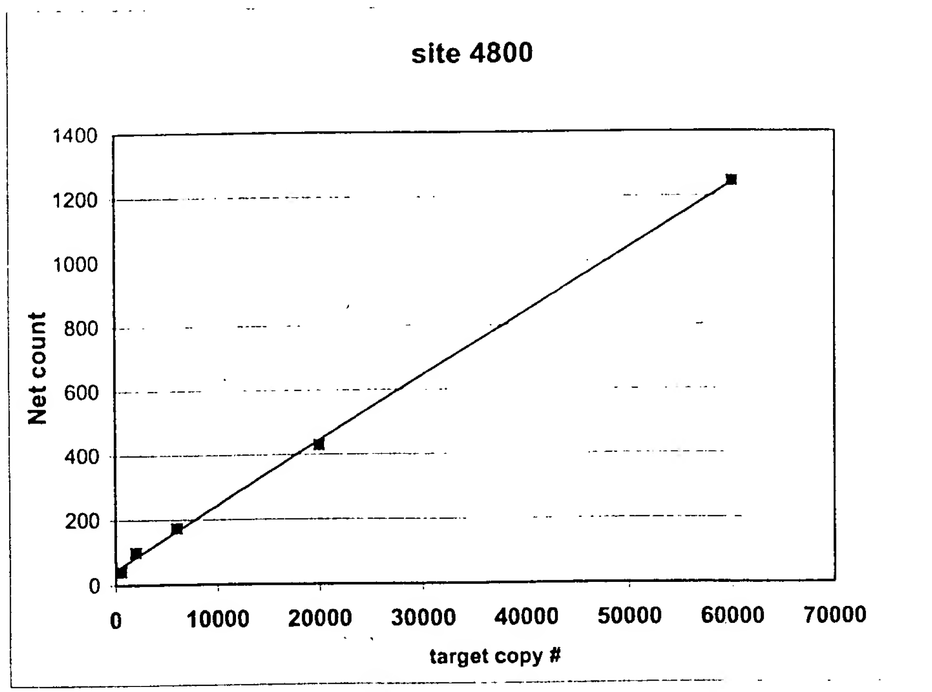

FIGURE 68

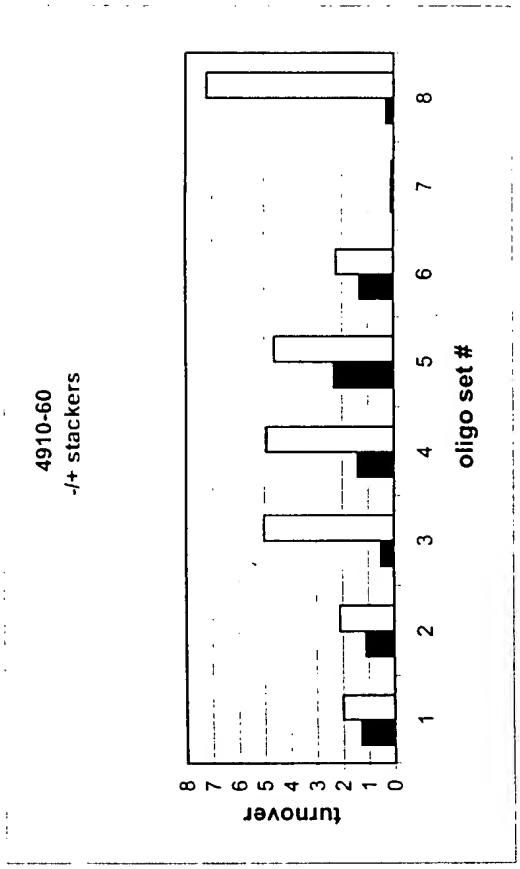

FIGURE 69

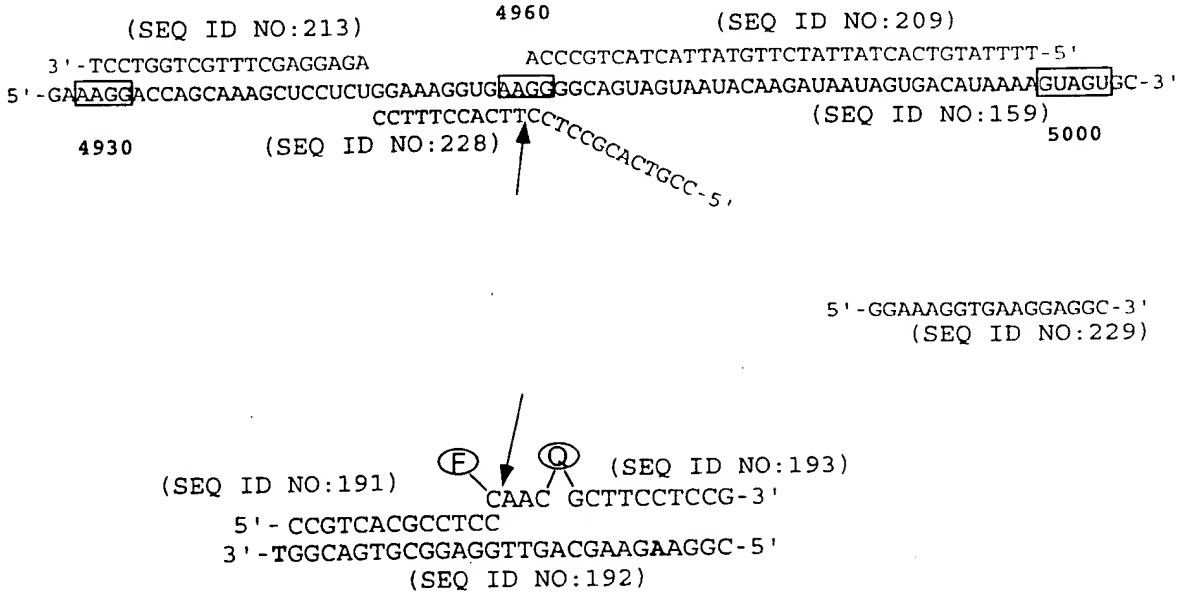

FIGURE 70

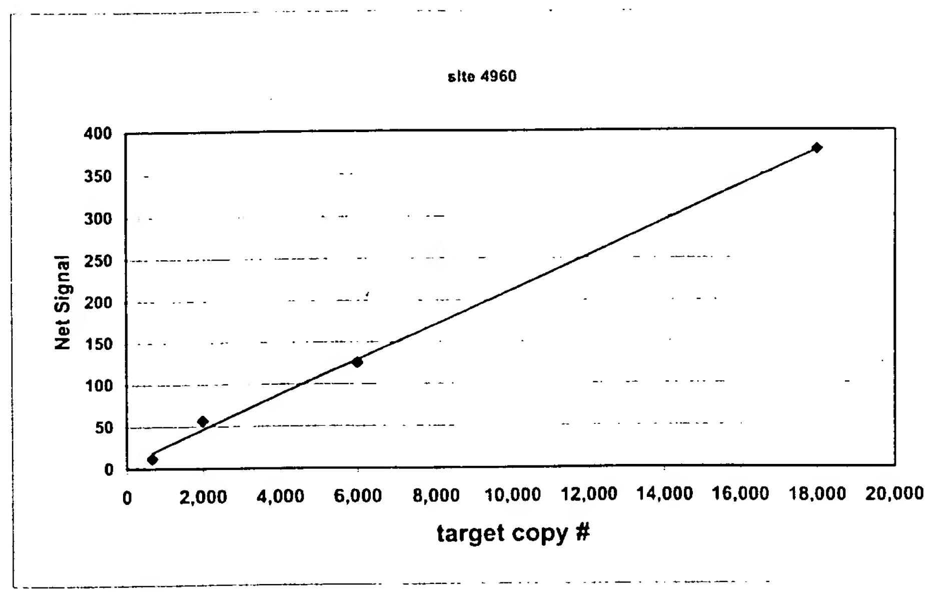

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FIGURE 71

Human PSP94

383-31-1 5'-TET-CCTGCTTATCACAATGAA-3' (SEQ ID NO:230)
383-31-3 5'-TET-ACATGCACTTGCTACGAAAC-3' (SEQ ID NO:231)

SEQ ID NO:232
CCUGCUUAUCACAAUGAAUGUUCUCCUGGGCAGCGUUGUGAUCUUUGCCACCUUCGUGA
CUUUAUGCAAUGCAUCAUGCUAUUUCAUACCUAAUGAGGGAGUUCCAGGAGAUUCAACCA
GGAAAUGCAUGGAUCUCAAAGGAAACAAACACCCAAUAAACUCGGAGUGGCAGACUGAC
AACUGUGAGACAUGCACUUGCUACGAAACAGAAAUUUCAUGUUGCACCCUUGUUUCUAC
ACCUGUGGGUUAUGACAAAGACAACUGCCAAAGAAUCUUCAAGAAGGAGGACUGCAAGU
AUAUCGUGGUGGAGAAGAAGGACCCAAAAAAGACCUGUUCUGUCAGUGAAUGGAUAAUC
UAAUGUGCUUCUAGUAGGCACAGGGCUCCCAGGCCAGGCCUCAUUCUCCUCUGGCCUCUA
AUAGUCAAUGAUUGUGUAGCCAUGCCUAUCAGUAAAAAGAUUUUUG

09829645.061501

FIGURE 72

Human ubiquitin:

520-77-1 5'-TET-CCGCCACCAAAATGC-3' (SEQ ID NO:233)
520-59-2 5'-TET-GCTGGAAGATGGACG-3' (SEQ ID NO:234)

SEQ ID NO:235
CCGCCACCAAAAUGCAGAUUUUCGUGAAAACCCUUACGGGGAAGACCAUCACCCUCGAG
GUUGAACCCUCGGAUACGAUAGAAAAUGUAAAGGCCAAGAUCCAGGAUAAGGAAGGAAU
UCCUCCUGACAGCAGAGACUGAUCUUUGCUGGCAAGCAGCUGGAAGAUGGACGUACUUUG
UCUGACUACAAUAUUCAAAAGGAGUCUACUCUUCAUCUUGUGUUGAGACUUCGUGGUGG
UGCUAAGAAAAGGAAGAAGAAGUCUUACACCACUCCCAAGAAGAAUAAGCACAAGAGAAA
GAAGGUUAAGCUGGCUGUCCUGAAAUAUUAUAAGGUGGAUGAGAAUGGCAAAAUUAGUC
GCCUUCGUCGAGAGUGCCCUUCUGAUGAAUGUGGUGCUGGGGUGUUUAUGGCAAGUCACU
UUGACAGACAUUAUUGUGGCAAAUGUUGUCUGA

FIGURE 73

HCV-1a 5'-UTR:

898-28-01 5'-TET-GGGACACTCCACCATGAATCACTC-3' (SEQ ID NO:236)
898-35-01 5'-TET-CGGGAGAGCCATAGTGGTCTGCGG-3' (SEQ ID NO:237)
898-35-02 5'-TET-ATTTGGGCGTGCCCCCGC-3' (SEQ ID NO:238)
898-35-03 5'-TET-GACCGGGTCCTTTCTTGGA-3' (SEQ ID NO:239)

SEQ ID NO:240
GGGACACUCCACCAUGAAUCACUCCCCUGUGAGGAACUACUGUCUUCACGCAGAAAGCGU
CUAGCCAUGGCGUUAGUAUGAGUGUCGUGCAGCCUCCAGGACCCCCCCUCCCGGGAGAG
CCAUAGUGGUCUGCGGAACCGGUGAGUACACCGGAAUUGCCAGGACGACCGGGUCCUUUC
UUGGAUAAACCCGCUCAAUGCCUGGAGAUUUGGGCGUGCCCCCGCAAGACUGCUAGCCG
AGUAGUGUUGGGUCGCGAAAGGCCUUGUGGUACUGCCUGAUAGGGUGCUUGCGAGUGCC
CCGGGAGGUCUCGUAGACCGUGCACCAUGAG

FIGURE 74

HCV-1b 5'-UTR:

898-28-02	5'-TET-GGGACACTCCACCATAGATCACTC-3'	(SEQ ID NO:241)
898-35-01	5'-TET-CGGGAGAGCCATAGTGGTCTGCGG-3'	(SEQ ID NO:237)
898-35-02	5'-TET-ATTTGGGCGTGCCCCCGC-3'	(SEQ ID NO:238)
898-35-03	5'-TET-GACCGGGTCCTTTCTTGGA-3'	(SEQ ID NO:239)

SEQ ID NO:242

GGGACACUCCACCAUAGAUCACUCCCCUGUGAGGAACUACUGUCUUCACGCAGAAAGCGU
CUAGCCAUGGCGUUAGUAUGAGUGUCGUGCAGCCUCCAGGACCCCCCCUCCCGGGAGAG
CCAUAGUGGUCUGCGGAACCGGUGAGUACACCGGAAUUGCCAGGACGACCGGGUCCUUUC
UUGGAUCAACCCGCUCAAUGCCUGGAGAUUUGGGCGUGCCCCCGCGAGACUGCUAGCCG
AGUAGUGUUGGGUCGCGAAAGGCCUUGUGGUACUGCCUGAUAGGGUGCUUGCGAGUGCC
CCGGGAGGUCUCGUAGACCGUGCACCAUGAG

FIGURE 75

HCV 2a/c 5'-UTR:

898-28-01 5'-TET-GGGACACTCCACCATGAATCACTC-3' (SEQ ID NO:236)
898-35-01 5'-TET-CGGGAGAGCCATAGTGGTCTGCGG-3' (SEQ ID NO:237)
898-35-02 5'-TET-ATTTGGGCGTGCCCCCGC-3' (SEQ ID NO:238)
898-35-03 5'-TET-GACCGGGTCCTTTCTTGGA-3' (SEQ ID NO:239)

SEQ ID NO:243
GGGACACUCCACCAUGAAUCACUCCCCUGUGAGGAACUACUGUCUUCACGCAGAAAGCGU
CUAGCCAUGGCGUUAGUAUGAGUGUCGUACAGCCUCCAGGCCCCCCCCUCCCGGGAGAG
CCAUAGUGGUCUGCGGAACCGGUGAGUACACCGGAAUUGCCGGGAAGACUGGGUCCUUUC
UUGGAUAAACCCACUCUAUGCCCGGCCAUUUGGGCGUGCCCCCGCAAGACUGCUAGCCGA
GUAGCGUUGGGUUGCGAAAGGCCUUGUGGUACUGCCUGAUAGGGUGCUUGCGAGUGCCCC
GGGAGGUCUCGUAGACCGUGCACCAUGAG

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FIGURE 76

HCV 3a 5'-UTR:

898-28-03 5'-TET-GGGACACTCCACCATGGATCACTC-3' (SEQ ID NO:244)
898-35-01 5'-TET-CGGGAGAGCCATAGTGGTCTGCGG-3' (SEQ ID NO:237)
898-35-02 5'-TET-ATTTGGGCGTGCCCCCGC-3' (SEQ ID NO:238)
898-35-03 5'-TET-GACCGGGTCCTTTCTTGGA-3' (SEQ ID NO:239)

SEQ ID NO:245
GGGACACUCCACCAUGGAUCACUCCCCUGUGAGGAACUUCUGUCUUCACGCGGAAAGCGC
CUAGCCAUGGCGUUAGUACGAGUGUCGUGCAGCCUCCAGGCCCCCCCCUCCCGGGAGAG
CCAUAGUGGUCUGCGGAACCGGUGAGUACACCGGAAUCGCUGGGGUGACCGGGUCCUUUC
UUGGAACAACCCGCUCAAUACCCAGAAAUUUGGGCGUGCCCCCGCGAGAUCACUAGCCG
AGUAGUGUUGGGUCGCGAAAGGCCUUGUGGUACUGCCUGAUAGGGUGCUUGCGAGUGCC
CCGGGAGGUCUCGUAGACCGUGCACCAUGAG

09882945.061501

FIGURE 77A

Human Antigen CD36 mRNA Oligonucleotides

726-38-01	5'-ACAAGGGAAGAGAGATGAGGAACCAG-3'	(SEQ ID NO:246)
666-33-01	5'-TTTGCCTTCTCATCACCAATGG-3'	(SEQ ID NO:247)
937-03-01	5'-TET- aagggaagagagatgag-3'	(SEQ ID NO:248)
937-03-02	5'-TET-aggagtttgcaagaaac-3'	(SEQ ID NO:249)
937-03-03	5'-TET-ggtgctgtcctgg-3'	(SEQ ID NO:250)
937-03-04	5'-TET-cagttttggatctttgatg-3'	(SEQ ID NO:251)
937-03-05	5'-TET-aggacgctgagga-3'	(SEQ ID NO:252)
937-03-06	5'-TET-aacaagtcaaaatcttctatg-3'	(SEQ ID NO:253)
937-03-07	5'-TET-caatactgcagatggag-3'	(SEQ ID NO:254)
937-03-08	5'-TET-aagccaggtattgca-3'	(SEQ ID NO:255)
937-03-09	5'-TET-ctattgtttctgcacaga-3'	(SEQ ID NO:256)
937-03-10	5'-TET-aaatgaagaagaacatagga-3'	(SEQ ID NO:257)
937-03-11	5'-TET-ggtcaagccatcaga-3'	(SEQ ID NO:258)

FIGURE 77B

Human Antigen CD36 mRNA (SEQ ID NO:259)

ACAAGGGAAGAGAGAUGAGGAACCAGAGCUUGUAGAAACCACUUUAAUCAUAUCCAGGA
GUUUGCAAGAAACAGGUGCUUAACACUAAUUCACCUCCUGAACAAGAAAAAUGGGCUGU
GACCGGAACUGUGGGCUCAUCGCUGGGGCUGUCAUUGGUGCUGUCCUGGCUGUGUUUGG
AGGUAUUCUAAUGCCAGUUGGAGACCUGCUUAUCCAGAAGACAAUUAAAAAGCAAGUUG
UCCUCGAAGAAGGUACAAUUGCUUUUAAAAAUUGGGUUAAAACAGGCACAGAAGUUUAC
AGACAGUUUUGGAUCUUUGAUGUGCAAAAUCCACAGGAAGUGAUGAUGAACAGCAGCAA
CAUUCAAGUUAAGCAAAGAGGUCCUUAUACGUACAGAGUUCGUUUUCUAGCCAAGGAAA
AUGUAACCCAGGACGCUGAGGACAACACAGUCUCUUUCCUGCAGCCCAAUGGUGCCAUC
UUCGAACCUUCACUAUCAGUUGGAACAGAGGCUGACAACUUCACAGUUCUCAAUCUGGC
UGUGGCAGCUGCAUCCCAUAUCUAUCAAAAUCAAUUUGUUCAAAUGAUCCUCAAUUCAC
UUAUUAACAAGUCAAAAUCUUCUAUGUUCCAAGUCAGAACUUUGAGAGAACUGUUAUGG
GGCUAUAGGGAUCCAUUUUUGAGUUUGGUUCCGUACCCUGUUACUACUACAGUUGGUCUG
UUUUAUCCUUACAACAAUACUGCAGAUGGAGUUUAUAAAGUUUUCAAUGGAAAAGAUAA
CAUAAGUAAAGUUGCCAUAAUCGACACAUAUAAAGGUAAAAGGAAUCUGUCCUAUUGGG
AAAGUCACUGCGACAUGAUUAAUGGUACAGAUGCAGCCUCAUUUCCACCUUUUGUUGAG
AAAAGCCAGGUAUUGCAGUUCUUUUCUUCUGAUAUUUGCAGGUCAAUCUAUGCUGUAUU
UGAAUCCGACGUUAAUCUGAAAGGAAUCCCUGUGUAUAGAUUCGUUCUUCCAUCCAAGG
CCUUUGCCUCUCCAGUUGAAAACCCAGACAACUAUUGUUUCUGCACAGAAAAAAUUAUC
UCAAAAAAUUGUACAUCAUAUGGUGUGCUAGACAUCAGCAAAUGCAAAGAAGGGAGACC
UGUGUACAUUUCACUUCCUCAUUUUCUGUAUGCAAGUCCUGAUGUUUCAGAACCUAUUGA
UGGAUUAAACCCAAAUGAAGAAGAACAUAGGACAUACUUGGAUAUUCAACCUAUAACUG
GAUUCACUUUACAAUUUGCAAAACGGCUGCAGGUCAACCUAUUGGUCAAGCCAUCAGAA
AAAAUUCAAGUAUUAAAGAAUCUGAAGAGGAACUAUAUUGUGCCUAUUCUUUGGCUUAA
UGAGACUGGGACCAUUGGUGAUGAGAAGGCAAA

FIGURE 78

Human Ribosomal Protein L5 mRNA

761-47-01	5'-ATGGGGTTTGTTAAAGTTG-3'	(SEQ ID NO:260)
761-47-02	5'-GCTGGGTTTAGCTCTCAGCAGCCCGC-3'	(SEQ ID NO:261)
937-05-01	5'-TET- atggggtttgttaaagtt-3'	(SEQ ID NO:262)
937-05-02	5'-TET- gaagacgacgagagg-3'	(SEQ ID NO:263)
937-05-03	5'-TET- ggatgatagttcgtgtg-3'	(SEQ ID NO:264)
937-05-04	5'-TET- gctgcagcatattgta-3'	(SEQ ID NO:265)
937-05-05	5'-TET- ctgctatttggatgca-3'	(SEQ ID NO:266)
937-05-06	5'-TET- gcagaagtacatcgga-3'	(SEQ ID NO:267)
937-05-07	5'-TET- gacatgatggaggaga-3'	(SEQ ID NO:268)
937-05-08	5'-TET- agaagaaggatcggg-3'	(SEQ ID NO:269)

SEQ ID NO:270

AUGGGGUUUGUUAAAGUUGUUAAGAAUAAGGCCUACUUUAAGAGAUACCAAGUGAAAUU
UAGAAGACGACGAGAGGGUAAAACUGAUUAUUAUGCUCGGAAACGCUUGGUGAUACAAG
AUAAAAAUAAAUACAACACACCCAAAUACAGGAUGAUAGUUCGUGUGACAAACAGAGAU
AUCAUUUGUCAGAUUGCUUAUGCCCGUAUAGAGGGGAUAUGAUAGUCUGCGCACGUUA
UGCACACGAACUGCCAAAAUAUGGUGUGAAGGUUGGCCUGACAAAUUAUGCUGCAGCAU
AUUGUACUGGCCUGCUGCUGGCCCGCAGGCUUCUCAAUAGGUUUGGCAUGGACAAGAUC
UAUGAAGGCCAAGUGGAGGUGACUGGUGAUGAAUACAAUGUGGAAAGCAUUGAUGGUCAG
CCAGGUGCCUUCACCUGCUAUUUGGAUGCAGGCCUUGCCAGAACUACCACUGGCAAUAA
AGUUUUUGGUGCCCUGAAGGGAGCUGUGGAUGGAGGCUUGUCUAUCCCUCACAGUACCA
AACGAUUCCCUGGUUAUGAUUCUGAAAGCAAGGAAUUUAAUGCAGAAGUACAUCGGAAG
CACAUCAUGGGCCAGAAUGUUGCAGAUUACAUGCGCUACUUAAUGGAAGAAGAUGAAGA
UGCUUACAAGAAACAGUUCUCUCAAUACAUAAAGAACAGCGUAACUCCAGACAUGAUGG
AGGAGAUGUAUAAGAAAGCUCAUGCUGCUAUACGAGAGAAUCCAGUCUAUGAAAAGAAG
CCCAAGAAAGAAGUUAAAAAGAAGAGGUGGAACCGUCCCAAAAUGUCCCUUGCUCAGAA
GAAGGAUCGGGUAGCUCAAAAGAAGGCAAGCUUCCUCAGAGCUCAGGAGCGGGCUGCUG
AGAGCUAAACCCAGC

FIGURE 79A

Mouse Scavenger Receptor Class B Type I mRNA Oligonucleotides

726-39-01	5'-GCTCAAGAATGTCCGCATAGACCCG-3'	(SEQ ID NO:271)
666-34-01	5'-CTGGTCCCTGAGTTGTTTTTGC-3'	(SEQ ID NO:272)
937-01-01	5'-TET- GCTCAAGAATGTCCG-3'	(SEQ ID NO:273)
937-01-02	5'-TET- gggatgtggaaggag-3'	(SEQ ID NO:274)
937-01-03	5'-TET- ggaccctatgtctacag-3'	(SEQ ID NO:275)
937-01-04	5'-TET- acatcttggtcctgg-3'	(SEQ ID NO:276)
937-01-05	5'-TET- tctcaacacgtacctc-3'	(SEQ ID NO:277)
937-01-06	5'-TET- cggactcagcaaga-3'	(SEQ ID NO:278)
937-01-07	5'-TET- caagggtgtttgaagg-3'	(SEQ ID NO:279)
937-01-08	5'-TET- ctctgtttctctccca-3'	(SEQ ID NO:280)
937-01-09	5'-TET- gtgaagatgcagctg-3'	(SEQ ID NO:281)
937-01-10	5'-TET- agctggtgctgatg-3'	(SEQ ID NO:282)
937-01-11	5'-TET- caggcctactctgag-3'	(SEQ ID NO:283)
937-01-12	5'-TET- ggactctctcagcg-3'	(SEQ ID NO:284)

FIGURE 79B

Mouse Scavenger Receptor Class B Type I mRNA (SEQ ID NO:285)

GCUCAAGAAUGUCCGCAUAGACCCGAGCAGCCUGUCCUUCGGGAUGUGGAAGGAGAUCC
CCGUCCCUUUCUACUUGUCUGUCUACUUCUUCGAAGUGGUCAACCCAAACGAGGUCCUC
AACGGCCAGAAGCCAGUAGUCCGGGAGCGUGGACCCUAUGUCUACAGGGAGUUCAGACA
AAAGGUCAACAUCACCUUCAAUGACAACGACACCGUGUCCUUCGUGGAGAACCGCAGCC
UCCAUUUCCAGCCUGACAAGUCGCAUGGCUCAGAGAGUGACUACAUUGUACUGCCUAACA
UCUUGGUCCUGGGGGGCUCGAUAUUGAUGGAGAGCAAGCCUGUGAGCCUGAAGCUGAUG
AUGACCUUGGCGCUGGUCACCAUGGGCCAGCGUGCUUUUAUGAACCGCACAGUUGGUGA
GAUCCUGUGGGGCUAUGACGAUCCCUUCGUGCAUUUUCUCAACACGUACCUCCCAGACAU
GCUUCCCAUAAAGGGCAAAUUUGGCCUGUUUGUUGGGAUGAACAACUCGAAUUCUGGGG
UCUUCACUGUCUUCACGGGCGUCCAGAAUUUCAGCAGGAUCCAUCUGGUGGACAAAUGG
AACGGACUCAGCAAGAUCGAUUAUUGGCAUUCAGAGCAGUGUAACAUGAUCAAUGGGAC
UUCCGGGCAGAUGUGGGCACCCUUCAUGACACCCGAAUCCUCGCUGGAAUUCUUCAGCC
CGGAGGCAUGCAGGUCCAUGAAGCUGACCUACAACGAAUCAAGGGUGUUUGAAGGCAUU
CCCACGUAUCGCUUCACGGCCCCCGAUACUCUGUUUGCCAACGGGUCCGUCUACCCACC
CAACGAAGGCUUCUGCCCAUGCCGAGAGUCUGGCAUUCAGAAUGUCAGCACCUGCAGGUU
UGGUGCGCCUCUGUUUCUCUCCCACCCCCACUUUUACAACGCCGACCCUGUGUUGUCAG
AAGCUGUUCUUGGUCUGAACCCUAACCCAAAGGAGCAUUCCUUGUUCCUAGACAUCCAU
CCGGUCACUGGGAUCCCCAUGAACUGUUCUGUGAAGAUGCAGCUGAGCCUCUACAUCAA
AUCUGUCAAGGGCAUCGGGCAAACAGGGAAGAUCGAGCCAGUAGUUCUGCCGUUGCUGUG
GUUCGAACAGAGCGGAGCAAUGGGUGGCAAGCCCCUGAGCACGUUCUACACGCAGCUGGU
GCUGAUGCCCCAGGUUCUUCACUACGCGCAGUAUGUGCUGCUGGGGCUUGGAGGCCUCCU
GUUGCUGGUGCCCAUCAUCUGCCAACUGCGCAGCCAGGAGAAAUGCUUUUUGUUUUGGA
GUGGUAGUAAAAAGGGCUCCCAGGAUAAGGAGGCCAUUCAGGCCUACUCUGAGUCCCUGA
UGUCACCAGCUGCCAAGGGCACGGUGCUGCAAGAAGCCAAGCUAUAGGGUCCUGAAGACA
CUAUAAGCCCCCCAAACCUGAUAGCUUGGUCAGACCAGCCACCCAGUCCCUACACCCCG
CUUCUUGAGGACUCUCUCAGCGGACAGCCCACCAGUGCCAUGGCCUGAGCCCCCAGAUGU
CACACCUGUCCGCACGCACGGCACAUGGAUGCCCACGCAUGUGCAAAAACAACUCAGGGA
CCAG

FIGURE 80A

Rat CX3CR1 Accession No. U04808 Oligonucleotides

761-57-01	5'-taatacgactcactatagggacggaagtccaagagcatcactg-3'	(SEQ ID NO:286)
761-57-03	5'-gcaggtacctggtccgta-3'	(SEQ ID NO:287)
781-65-01	5'-TET-ggaagtccaagagca-3'	(SEQ ID NO:288)
781-65-02	5'-TET-aatggcttctttggg-3'	(SEQ ID NO:289)
781-65-03	5'-TET-ggcgtcgccc-3'	(SEQ ID NO:290)
781-65-04	5'-TET-tacttccgcatcgtc-3'	(SEQ ID NO:291)
781-65-05	5'-TET-cttcttccctagttgtg-3'	(SEQ ID NO:292)
781-65-06	5'-TET-tgcctggccgt-3'	(SEQ ID NO:293)
781-65-07	5'-TET-gactctactaagaaccca-3'	(SEQ ID NO:294)
781-73-01	5'-TET-ccatcttagtggcgt-3'	(SEQ ID NO:295)
781-73-02	5'-TET-caacaagtgcctgg-3'	(SEQ ID NO:296)
781-85-01	5'-TET-aacacggcgtcac-3'	(SEQ ID NO:297)
781-85-02	5'-TET-tgattaccccgagg-3'	(SEQ ID NO:298)
781-85-03	5'-TET-acgctgttttcctg-3'	(SEQ ID NO:299)
781-85-04	5'-TET-tgagacacctgtacaa-3'	(SEQ ID NO:300)
781-85-05	5'-TET-gacggagacagtgg-3'	(SEQ ID NO:301)
781-85-06	5'-TET-caagcgagggagag-3'	(SEQ ID NO:302)

FIGURE 80B

Rat CX3CR1 Accession No. U04808 (SEQ ID NO:303)

GGAAGUCCAAGAGCAUCACUGACAUCUACCUCCUGAACCUGGCCUUGAGCGACCUGCUC
UUUGUGGCCACUUUGCCCUUCUGGACUCACUACCUCAUCAGCCAUGAGGGCCUCCACAA
CGCCAUGUGCAAGCUCACGACUGCUUUCUUCUUCAUUGGCUUCUUUGGGGGCAUAUUCU
UCAUCACCGUCAUCAGCAUCGACCGGUACCUCGCCAUCGUCCUGGCCGCCAACUCCAUG
AACAACCGGACAGUGCAACACGGCGUCACCAUCAGUCUGGGCGUCUGGGCGGCGGCCAU
CUUAGUGGCGUCGCCCCAGUUCAUGUUCACAAAGAGAAAGGACAACGAAUGUUUGGGUG
AUUACCCCGAGGUCCUGCAGGAAAUCUGGCCCGUGCUCCGCAACUCGGAGGUCAACAUC
CUGGGCUUCGUCCUGCCCUUGCUUAUCAUGAGCUUUUGCUACUUCCGCAUCGUCCGGAC
GCUGUUUUCCUGCAAGAACCGGAAGAAGGCCAGAGCCAUUAGGCUCAUCCUCUUGGUGGU
UGUUGUCUUCUUCCUCUUCUGGACGCCUUACAACAUCGUGAUUUUCCUGGAGACUCUCA
AAUUCUACAACUUCUUCCCUAGUUGUGGCAUGAAGAGGGACCUGAGGUGGGCCCUUAGU
GUGACGGAGACAGUGGCGUUUAGCCACUGCUGCCUCAACCCCUUUAUCUACGCUUUCGC
UGGGGAAAAGUUCAGAAGGUACCUGAGACACCUGUACAACAAGUGCCUGGCCGUCCUGU
GCGGUCGUCCUGUCCACGCCGGCUUCUCAACAGAGUCCCAGAGGAGCAGGCAGGACAGC
AUUCUGAGCAGCUUGACUCACUACACAAGCGAGGGAGAGGGAUCUCUCCUGCUCUGAAGG
GUCUCCCCGACCCCGACUCUACUAAGAACCCAGAGUUCCUGCAUCUGACUCUGUGUAAUG
AAAACAGAUUCACACACACACACACACACACACACACACACACACACACCCCG
CUCCUCCUGCAUUUUAUGUGCAAGAAAUACGGACCAGGUACCUGC

FIGURE 81A

Human Interleukin-1 beta (IL-1ß) Oligonucleotides

720-82-01 5'-gtaatttaatacgactcactatagggaaggtgcagttttgccaaggagtgctaaag-3' (SEQ ID NO:304)

562-15-01 5'-ctgattgaaatttatctaataaaacatcat-3' (SEQ ID NO:305)

781-50-01	5'-TET-acttccaagctggc-3'	(SEQ ID NO:306)
781-50-02	5'-TET-gagagtggaccacac-3'	(SEQ ID NO:307)
781-50-03	5'-TET-gaatcagtgaagatgcc-3'	(SEQ ID NO:308)
781-50-04	5'-TET-cattgtaccatgaaatatcc-3'	(SEQ ID NO:309)
781-50-05	5'-TET-gaactttaatttcaggaattg-3'	(SEQ ID NO:310)
781-50-06	5'-TET-ccctagtctgctagc-3'	(SEQ ID NO:311)
781-50-07	5'-TET-ttcaagtgtaacttattaacc-3'	(SEQ ID NO:312)
781-72-01	5'-TET-aagctggccgtg-3'	(SEQ ID NO:313)
781-72-02	5'-TET-tgcagttttgccaag-3'	(SEQ ID NO:314)

FIGURE 81B

Human Interleukin-1 beta (IL-1ß) (GenBank Accession # M15330) (SEQ ID NO:315)

GGCAGAAGUACCUGAGCUCGCCAGUGAAAUGAUGGCUUAUUACAGUGGCAAUGAGGAUG
ACUUGUUCUUUGAAGCUGAUGGCCCUAAACAGAUGAAGUGCUCCUUCCAGGACCUGGAC
CUCUGCCCUCUGGAUGGCGGCAUCCAGCUACGAAUCUCCGACCACCACUACAGCAAGGG
CUUCAGGCAGGCCGCGUCAGUUGUUGUGGCCAUGGACAAGCUGAGGAAGAUGCUGGUUC
CCUGCCCACAGACCUUCCAGGAGAAUGACCUGAGCACCUUCUUUCCCUUCAUCUUUGAA
GAAGAACCUAUCUUCUUCGACACAUGGGAUAACGAGGCUUAUGUGCACGAUGCACCUGU
ACGAUCACUGAACUGCACGCUCCGGGACUCACAGCAAAAAAGCUUGGUGAUGUCUGGUC
CAUAUGAACUGAAAGCUCUCCACCUCCAGGGACAGGAUAUGGAGCAACAAGUGGUGUUC
UCCAUGUCCUUUGUACAAGGAGAAGAAAGUAAUGACAAAAUACCUGUGGCCUUGGGCCUC
AAGGAAAAGAAUCUGUACCUGUCCUGCGUGUUGAAAGAUGAUAAGCCCACUCUACAGCU
GGAGAGUGUAGAUCCCAAAAAUUACCCAAAGAAGAAGAUGGAAAAGCGAUUUGUCUUCAA
CAAGAUAGAAAUCAAUAACAAGCUGGAAUUUGAGUCUGCCCAGUUCCCCAACUGGUACA
UCAGCACCUCUCAAGCAGAAAACAUGCCCGUCUUCCUGGGAGGGACCAAAGGCGGCCAG
GAUAUAACUGACUUCACCAUGCAAUUUGUGUCUUCCUAAAGAGAGCUGUACCCAGAGAG
UCCUGUGCUGAAUGUGGACUCAAUCCCUAGGGCUGGCAGAAAGGGAACAGAAAGGUUUU
UGAGUACGGCUAUAGCCUGGACUUUCCUGUUGUCUACACCAAUGCCCAACUGCCUGCCUU
AGGGUAGUGCUAAGAGGAUCUCCUGUCCAUCAGCCAGGACAGUCAGCUCUCUCCUUUCA
GGGCCAAUCCCCAGCCCUUUUGUUGAGCCAGGCCUCUCUCACCUCUCCUACUCACUUAA
AGCCCGCCUGACAGAAACCACGGCCACAUUUGGUUCUAAGAAACCCUCUGUCAUUCGCU
CCCACAUUCUGAUGAGCAACCGCUUCCCUAUUUAUUUAUUUAUUUGUUUGUUUGUUUUA
UUCAUUGGUCUAAUUUAUUCAAAGGGGGCAAGAAGUAGCAGUGUCUGUAAAAGAGCCUA
GUUUUUAAUAGCUAUGGAAUCAAUUCAAUUUGGACUGGUGUGCUCUCUUUAAAUCAAGU
CCUUUAAUUAAGACUGAAAAUAUAUAAGCUCAGAUUAUUUAAAUGGGAAUAUUUAUAAA
UGAGCAAAUAUCAUACUGUUCA

FIGURE 82A

Human Interferon gamma Oligonucleotides

448-59-01	5'-TET-GCATCGTTTTGGGTTCTCTT	(SEQ ID NO:316)
448-59-02	5'-TET-ACTTTAAAGATGACCAGAGC	(SEQ ID NO:317)
448-79-01	CACATTGTTCTGATCATCTG	(SEQ ID NO:318)
448-79-02	CGGTAACTGACTTGAATGTC	(SEQ ID NO:319)
448-79-03	TAGTAACTGGATAGTATCAC	(SEQ ID NO:320)
448-79-04	GACATTCAAGTCAGTTACCG	(SEQ ID NO:321)
498-20-01	AATTTAATACGACTCACTATACACATTGTTCTGATCATCTG	(SEQ ID NO:322)
498-20-02	AATTTAATACGACTCACTATACGGTAACTGACTTGAATGTC	(SEQ ID NO:323)
498-20-03	5'-TET-CACATTGTTCTGATCATCTG	(SEQ ID NO:324)
498-20-04	5'-TET-CGGTAACTGACTTGAATGTC	(SEQ ID NO:325)
498-40-01	5'-AGTAATTTACGACTCACTATAGGGACACATTGTTCTGATCATCTGAAGA	(SEQ ID NO:326)
498-40-02	5'-AGTAATTTACGACTCACTATAGGGACGGTAACTGACTTGAATGTCCAAC	(SEQ ID NO:327)
498-84-01	5'-TET-CATTCAGATGTAGCG	(SEQ ID NO:328)
498-84-02	5'-TET-GACTCATCAATCAAA	(SEQ ID NO:329)
498-84-03	5'-TET-GATTACAAGGCTTTA	(SEQ ID NO:330)

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FIGURE 82B

Human Interferon gamma (SEQ ID NO:141)

CACAUUGUUCUGAUCAUCUGAAGAUCAGCUAUUAGAAGAGAAAGAUCAGUUAAGUCCUUU
GGACCUGAUCAGCUUGAUACAAGAACUACUGAUUUCAACUUCUUUGGCUUAAUUCUCUC
GGAAACGAUGAAAUAUACAAGUUAUAUCUUGGCUUUUCAGCUCUGCAUCGUUUUGGGUUC
UCUUGGCUGUUACUGCCAGGACCCAUAUGUACAAGAAGCAGAAAACCUUAAGAAAUAUU
UUAAUGCAGGUCAUUCAGAUGUAGCGGAUAAUGGAACUCUUUUCUUAGGCAUUUUGAAG
AAUUGGAAAGAGGAGAGUGACAGAAAAAUAAUGCAGAGCCAAAUUGUCUCCUUUUACUU
CAAACUUUUUAAAAACUUUAAAGAUGACCAGAGCAUCCAAAAGAGUGUGGAGACCAUCA
AGGAAGACAUGAAUGUCAAGUUUUUCAAUAGCAACAAAAAGAAACGAGAUGACUUCGAAA
AGCUGACUAAUUAUUCGGUAACUGACUUGAAUGUCCAACGCAAAGCAAUACAUGAACUCA
UCCAAGUGAUGGCUGAACUGUCGCCAGCAGCUAAAACAGGGAAGCGAAAAAGGAGUCAG
AUGCUGUUUCGAGGUCGAAGAGCAUCCCAGUAAUGGUUGUCCUGCCUACAAUAUUUGAAU
UUUAAAUCUAAAUCUAUUUAUUAAUAUAACAUUAUUUAUAUGGGGAAUAUAUUUUUAGAC
UCAUCAAUCAAAUAAGUAUUUAUAAUAGCAACUUUUGUGUAAUGAAAAUGAAUAUCUAUU
AAUAUAUGUAUUAUUUAUAAUUCCUAUAUCCUGUGACUGUCUCACUUAAUCCUUUGUUUU
CUGACUAAUUAGGCAAGGCUAUGUGAUUACAAGGCUUUAUCUCAGGGGCCAACUAGGCA
GCCAACCUAAGCAAGAUCCCAUGGGUUGUGUGUUUAUUUCACUUGAUGAUACAAUGAAC
ACUUAUAAGUGAAGUGAUACUAUCCAGUUACUA

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FIGURE 83A

Pneumocystis carinii (NUCLEODTIDES 84-415 OF ACCESSION # AF236872) (SEQ ID NO:331)

GAGGGUCAUGAAAGCGGCGUGAAAACGUUAGCUAGUGAUCUGGAAUAAAUUCAGAUUGC
GACACUGUCAAAUUGCGGGGAAGCCCUAAAGAUUCAACUACUAAGCAGUUUGUGGAAAC
ACAGCUGUGGCCGAGUUAAUAGCCCUGGGUAUAGUAACAAUGUUGAAUAUGAAUCUUUU
GCGAGAUGAAAUGGGUGAUCCGCAGCCAAGUCCUAAGGGCAUUUUUGUCUAUGGAUGCAG
UUCAACGACUAGAUGGCAGUGGGUAUUGUAAGGAAUUGCAGUUUUCUUGCAGUGCUUAA
GGUAUAGUCUAUCCUCUUUCGAAAGAAAGAGUAUAU

Candida albicans (NUCLEOTIDES 72-418 OF ACCESSION # X74272)(SEQ ID NO:332)

GGGAGGCAAAAGUAGGGACGCCAUGGUUUCCAGAAAUGGGCCGCGGUGUUUUGACCUGC
UAGUCGAUCUGGCCAGACGUAUCUGUGGGUGGCCAGCGGCGACAUAACCUGGUACGGGG
AAGGCCUCGAAGCAGUGUUCACCUUGGGAGUGCGCAAGCACAAAGAGGUGAGUGGUGUA
UGGGGUUAAUCCCGUGGCGAGCCGUCAGGGCGCGAGUUCUGGCAGUGGCCGUCGUAGAG
CACGGAAAGGUAUGGGCUGGCUCUCUGAGUCGGCUUAAGGUACGUGCCGUCCCACACGA
UGAAAAGUGUGCGGUGCAGAAUAGUUCCCACAGAACGAAGCUGCGCCGGAGAAAGCGAUU
UCUUGGAGCAAU

FIGURE 83B

Earwig R2 element (SEQ ID NO:333)

UAGGAUGAUAGCGCACCUGGUCAUCGUCUCUCUCAGCUGCUCACUUGCUGUUCUAAGUG
AUAAUACCGUUGUUUUUUUAGUGGGUAUUCUUUUACGCUUUCGUAGGAGCGAGUCCCAC
ACUCUUGGAGCAAUCCGGGGUAGUGCCUAAACGCAUUUCUUCAACGU

Bombyx mori R2 element (SEQ ID NO:334)

GCCUUGCACAGUAGUCCAGCGGUAAGGGUGUAGAUCAGGCCCGUCUGUUUCUCCCCCGGA
GCUCGCUCCCUUGGCUUCCCUUAUAUAUUUUAACAUCAGAAACAGACAUUAAACAUCUA
CUGAUCCAAUUUCGCCGGCGUACGGCCACGAUCGGGAGGGUGGGAAUCUCGGGGGUCUU
CCGAUCCUAAUCCAUGAUGAUUACGACCUGAGUCACUAAAGACGAUGGCAUGAUGAUCC
GGCGAUG